

CURRICULUM VITAE

Name: Dr. Monika Puttaramaiah

Associate Professor, Dept. of Machine Learning (AI&ML)

Chief Coordinator - BSN Center of Excellence in AI&ML

Convener - Social Media & Public Relations Cell

BMS College of Engineering, Bengaluru – 560 019.

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Career Objective: To face the challenge of practical work and have an esteem to raise myself at the top in the profession by hard work, dedication and determination.

Field of Interest: Generative AI, Deep Learning, Semantic Web, Web mining, Artificial Intelligence, Quantum Computing, Cyber Security.

Subjects Taught: Generative AI with Large Language Models, Deep Learning, Machine Learning, Python Programming, Big Data Analytics, Probability and Statistics for Machine Learning, Calculus and Statistics for Machine Intelligence, Compiler Design, Database Management System, Web2.0 and Rich Internet Applications, Data Structures, Graph Theory and Combinatorics, Operating Systems, Design & Analysis of Algorithms, Formal Languages and Automata Theory, C Programming and OOPS with Java.

Academic Details

| Course | Discipline | School/College | Board/University | Year of Passing | % of Marks with class |
|---------|------------|---|----------------------|-----------------|--|
| Ph. D | CSE | RNSIT, Bengaluru under the guidance of Dr. G T Raju | VTU, Belagavi | | Final Viva-voce completed on 22 nd July, 2020 |
| M. Tech | CSE | RNSIT, Bengaluru | VTU, Belagavi | 2011 | 75.25 / FCD |
| B. E. | CSE | BNMIT, Bengaluru | VTU, Belagavi | 2007 | 76.04 / FCD |
| PUC | PCMB | National college, Basavanagudi, Bengaluru | PUC Board, Karnataka | 2003 | 82.66 / FC |
| SSLC | - | National High School, Basavanagudi, Bengaluru | KSEEB | 2001 | 84.96 / FC |

Technical Skill Set

| | |
|--------------------------|--|
| Operating Systems | Windows, Linux. |
| Programming Languages | C, C++, JAVA, J2ME, EJBs, C#, Python |
| Web Technologies | Servlets, JSP, JavaScript, HTML, PERL, PHP, CGI. |
| Editors | TURBO C++, vi |
| RDBMS | Oracle9i, SQL. |
| Web Servers | Apache Tomcat. |
| Application Servers | JBoss 4.0.3, WSAD 5.0. |
| IDE Tool | Eclipse, TOAD. |
| LLM | Mistral |
| Model Tuning Environment | Hugging Face, StreamLit, Quantized LORA |

Work Experience

- Currently, working as “**Associate Professor**” at Dept. of Machine Learning (AI&ML), BMS College of Engineering, Bull Temple Road, Bengaluru - 560 019 (Since August 1, 2024 till date).
- Worked as “**Assistant Professor**” at Dept. of AI&ML, BMSCE, Bull Temple Road, Bengaluru - 560 019 from 11th Oct, 2021 to 31st July, 2024 (2.9 years).
- Worked as “**Assistant Professor**” at Dept. of CSE, DSCE, Kumaraswamy Layout, Bengaluru - 560 078 from 15th Jan, 2009 to 7th Oct, 2021 (12.9 years).
- Worked as “**Software Engineer**” for “**Birlasoft Pvt. Ltd**” from 7th Aug, 2007 to 13th Jan, 2009 (1.6 years).

Consultancies Undertaken

1. **Description:** Student Development Program on “Hands on Mastery: Deep Dive into Machine Learning and Deep Learning Techniques” for students of Dr. T Thimmaiah Institute of Technology, KGF; **Number of Days:** 2 Weeks; **Date/Duration:** 3rd to 14th June, 2024; **Number of Students:** 100+; **Amount earned:** Rs. 1,00,000/-
2. **Description:** Conducted Value Added Course “DL Parallel Programming in Python” for BCA students of BMS College of Commerce and Management, No. 97, Kavi Lakshmitha Road, Opp. to Jain College, Bengaluru – 560 004; **Number of Hours/Days:** 36/18; **Date/Duration:** Oct 2023 - June, 2024; **Number of Students:** 60+; **Amount earned:** Rs. 1,80,000/-
3. **Description:** Inspection and Certification of 523 No. of Dell Computers at Bangalore Institute of Technology (BIT), K R Road, V V Puram, Bengaluru – 560 004; **Number of Days:** 03; **Date/Duration:** 10-12 Jan, 2024; **Amount earned:** Rs. 55,000/-

Coordinated for processing the signing of Memorandum of Understanding (MoU) between BMSET and Corporate Companies/Academia

1. **BMS College of Engineering and Vijaydhvaj AI Techsolutions** signed an MoU on **October 19, 2024** for utilization of infrastructure & computing resources with financials and carry out Research & Development providing employment opportunity for students of BMSCE. Validity Period: 2 years.
2. **BMS College of Engineering and Global Institute of Business Studies (GIBS)** signed an MoU on **September 30, 2024** for academic interactions towards improving the quality of learning through training and cross domain Research & Development. Validity Period: 5 years.
3. **BMS Educational Trust and RNS Institute of Technology(RNSIT)** signed an MoU on **June 6, 2024** for academic interactions towards enhancing Research & Development activity along with NVIDIA DGX A100 resource sharing to improve the quality of teaching and imparting practical skills to students of RNSIT. Validity Period: 2 years.
4. **BMS Educational Trust and Dr. T. Thimmaiah Institute of Technology (Dr. TTIT), KGF** signed an MoU on **May 21, 2024** for academic interactions towards improving the quality of teaching and imparting practical skills to students of Dr. TTIT. Validity Period: 2 Weeks.
5. **BMS Educational Trust and BGS College of Engineering and Technology (BGSCET), Bengaluru** signed an MoU on **March 18, 2024** for academic & industry interactions towards improving the quality of teaching, for imparting practical skills to students of SJCIT and undertaking research & consultancy between both the institutions. Validity Period: 3 years.
6. **BMS Educational Trust and SJC Institute of Technology (SJCIT), Chickballapur** signed an MoU on **March 18, 2024** for academic & industry interactions towards

improving the quality of teaching, for imparting practical skills to students of SJCIT and undertaking research & consultancy between both the institutions. Validity Period: 3 years.

7. **BMS Educational Trust and BOSTON IT Solutions India Pvt. Ltd.** signed an MoU on **Nov 15, 2023** for incorporating experience & knowledge of industrial standards and technical skills in the domain of AI&ML to the students of BMSCE, BMSIT&M and General public in the form of real time projects, internships and training programs. Validity Period: 3 years.
8. **BMS Educational Trust and PW Skills** signed MoU on **June 22, 2023** for incorporating experience & knowledge of industrial standards and technical skills in the domain of AI&ML to the students of BMSCE, BMSIT&M and General public in the form of real time projects, internships and training programs. Validity Period: 3 years.
9. **BMS Educational Trust and Metropolitan Media Company Ltd.** signed MoU on **June 22, 2023** for incorporating AI&ML concepts in Media. Understanding include projects and internship opportunities from Metropolitan Media Company Ltd. to the students of BMSCE and BMSIT&M. Validity Period: 3 years.

Grants Received

1. Proposal Title: A Research Study to Understand the Potential Use of Artificial Intelligence to Promote Tourism in Northeast India; Grant Amount: **Rs. 30,00,000/-**; Grant Agency: Indian Council of Social Science Research (ICSSR); Present Status: Proposal Submitted.
2. Date: 21st October, 2022; Grant Title: Crowd Handling in Public Utilities using Deep Neural Network; Grant Amount: **Rs. 1,50,000/-**; Grant Agency: Faculty Research Promotion Scheme (FRPS), BMSCE; Project Duration: 12 Months; Project Completion Date: Ongoing;

Coordinated for Research Lab Setup

1. Set up of NVIDIA DGX A100 server at BMS College of Engineering, Bengaluru – 560 019. Participated in the process of procurement and installation of NVIDIA DGX A100 server at trust level during September 2021. Maintaining the server from September 2021 till date.
2. Lab Details: B.S. Narayan Center of Excellence in Artificial Intelligence & Machine Learning, Established year: September 2022, Department: Machine Learning (Artificial Intelligence & Machine Learning) at BMS College of Engineering, Bengaluru – 560 019

Work @ BMSCE as Coordinator

1. Syllabus framing committee coordinator from Oct 2021 till Oct 2023.
2. DAC(BoE) convener from Oct 2021 till Sep 2024.
3. DAC (BoS) convener from Oct 2021 till Sep 2024.
4. DPC convener from Oct 2021 till Sep 2024.
5. CIE Coordinator from Oct 2021 till Sep 2024.
6. Time Table Coordinator from Oct 2021 till Sep 2024.
7. AICTE Activity Points Coordinator from Oct 2021 till Sep 2024.
8. Seminar & Project Coordinator from Oct 2021 till Sep 2024.
9. Chief proctor from Oct 2021 till date.
10. Student Club Coordinator from Oct 2021 till Sep 2024

Work @ DSCE (Previous Institution) as Coordinator

1. Head of Criteria 8 (1st year – CSE subject) during NBA visit – September, 2017, continued the work for subsequent years : 2018, 2019, 2020, 2021.
2. Head of Dept. Test team from Oct 2020 – Oct 2021.
3. Head of AICTE activity points from Oct 2020 – Oct 2021
4. Head of NBA - Criteria 2 from Oct 2020 – Oct 2021
5. Nominated as Dept. BOS member and also functioned as Coordinator for conducting Dept. BOS meeting during June – Oct 2021.
6. 6th semester team, team of 16 faculties, during April – July, 2021.
7. 1st year subject: PIC13 (9 sections), team of 12 faculties, during Jan - April, 2021.
8. 3rd semester team, team of 9 faculties, during Aug-Dec, 2020
9. 1st year subject: PIC23 (9 sections), team of 7 faculties, during Jan - May, 2020.
10. 1st year subject: PIC23 (11 sections), team of 11 faculties, during Aug - Dec, 2019.
11. Coordinated to establish “Creative Minds Lab” cell during October, 2017.
12. Coordinated to establish “Centre of Cyber Security” cell during October, 2017.
13. Established “Creative Minds Lab” during Jan - May, 2017.
14. 1st year subject: PIC23 (11 sections), team of 11 faculties, during Dec - May, 2017.
15. 1st year subject: PIC23 (11 sections), team of 10 faculties, during Dec - May, 2016.
16. C Programming Coding competition for 1st year students (800 students’ approximately) in association with “Codechef” – A nonprofit organization on 21st March, 2017.
17. Community Development Programme - “SPANDANA” from 2012 to 2021.
18. Coordinated and Organized a Two-day workshop on "Fundamentals of Computers" under the banner of Dr. Premachandra Sagar Centre for Social Services and Skill Promotion (DPSSKIP) during 11-12 December, 2015, Targeted Audience: School dropouts and Unemployed youths.

Other positions held at BMSCE [Institution Level]

1. Nominated as AICTE Campus Ambassador in September 2024
2. Social Media and Public Relations Cell Convener from July 2023 till date.
3. BSN Center of Excellence (NVIDIA) Coordinator from Sep 2021 till date.
4. Anti-ragging committee: Flying Squad [Nov-Dec 2022, Oct-Nov 2023, Oct-Nov 2024].

Other positions held at Other institutions

1. BoS member at Computer Science & Business Systems, BMSCE from 6.5.2024 to 5.5.2027
2. DC committee external expert panel member for Ph. D students of VTU working at research center of Dept. of CSE, SJCIT, Chikkaballapur from June 2021 till date.

Ph.D Guideship

- Recognized Research supervisor at VTU from 18-May-2023.
- 3 students undergoing registration process.

Contribution for Curriculum Development

1. Functioning as Convener of BoS Committee from Oct 2021 till date.
2. Have framed scheme and syllabus for couple of courses offered for the Non-NEP batch - 175 credits, Nep-1 batch 160 credits, Nep-2 batch 160 credits.
3. The major courses for which the syllabus was framed include: Data Structures, Probability and Statistics in Machine Learning, Python for Machine Learning,

Introduction to Machine Learning, Theoretical Foundations of Computations, Deep Learning, Deep Learning Laboratory and Calculus & Statistics for Machine Intelligence.

Awards and Recognitions

1. Mentored a team of students for contesting in a project exhibition at “Telcombat: An International Level Project Contest” organized by BMSCE IEEE student Branch in collaboration with Dept. of Electronics and Telecommunication on May 31, 2024.
2. The Evaluation Board of Karnataka Book of Records honored Dr. Monika Puttaramaiah, Assistant Professor, Dept. of Machine Learning [AI-ML], BMS College of Engineering as a eminent speaker on Sep 2, 2023 at Nimhans Convention Centre, Bengaluru.
3. Best Paper Award: Monika P, Raju G T, “Integration of Healthcare Ontologies at Schema Level using Customized Metadata”, 3rd International Conference on Data Engineering and Communication Systems (ICDECS), December 19-20, 2019.

Invited Talks Presented

1. Talk on “Generative AI with Large Language Models” at one-week Faculty Development Programme jointly organized by RNSIT and BMSCE during 23rd to 28th September, 2024, Targeted Audience: 70+ Faculties & Industrialists from various VTU affiliated colleges & IT companies.
2. Speaker at 3 Days Student Development Program on “Applications of Machine Learning in Business” organized by Dept. of MBA and Research Centre at SJC Institute of Technology, Chikkaballapur from 20th to 22nd September, 2024. Targeted Audience: 60+ students and faculties.
3. Talk on “AI-Deep Learning Techniques & Applications” at Chai with Champions organized by Unik 360, Bengaluru on 12th July, 2024, Targeted Audience: 150+ general public, students and researchers.
4. Speaker at 2 weeks Student Development Program on “Hands on Mastery: Deep Dive into Machine Learning and Deep Learning Techniques” organized by Department of CSE in association with CSI students branch & IIC at Dr. T Thimmaiah Institute of Technology, KGF from 3rd to 14th June, 2024. Targeted Audience: 100+ students and faculties.
5. Speaker at an online Emerging Tech Webinar Series | Ep. 13 of Tach Area: AI titled “ AI-Powered Network Automation 5G & Beyond” organized by Techsagar – India’s Cybertech Repository on October 26, 2023, Targeted Audience: 100+ researchers and active learners.
6. Talk on “CHATGPT” at Technology Symposium AVOTECH 2023 Intelligence and Beyond held at NIMHANS Convention Center, Bengaluru on 2nd Sep, 2023, Targeted Audience: 150+ general public, students and researchers.
7. Talk on “AIML & CHAT-GPT – Effective Use in Print Media” at Office of Vijay Karnataka, Bangalore Murror (A unit of Times of India) on 12th May, 2023, Targeted Audience: 300+ Journalists from all over Karnataka.
8. Talk on “A* and AO* Search Algorithms” as part of 3 Days Virtual Faculty Development Program on Artificial Intelligence and Machine Learning jointly organized by Dept. of CSE & ISE at SJCIT, Chikkaballapur on 20th September, 2021, Targeted Audience: around 200+ Faculties from various VTU affiliated colleges.
9. Talk on “Ph.D Entrance Preparation and Synopsis Writing” as part of FDP series at Department of Computer Science and Engineering, DSCE on 13th September, 2021, Targeted Audience: around 20 Faculties from Dept. of CSE, DSCE.

Patents filed/published/granted

1. **Indian patent - Published:** Title of Invention: An Algorithm for Detecting Leukemia in Microscopic Images using Machine Learning Techniques, Application number: 202241009230 A, Publication Date: 04 March, 2022.
2. **Australian Innovation patent – Granted:** Title of Invention: System for Improving Prediction Accuracy of Healthcare Ontology, Patent number: 2021102318, Grant Date: 2 June, 2021, Validity: Eight years from 2 May 2021.
3. **Indian patent - Published:** Title of Invention: System for Integrating Healthcare Ontologies for Improved Prediction Accuracy, Application number: 202141018698 A, Publication Date: 30 April, 2021.
4. **Indian patent - Published:** Title of Invention: System for Improving Prediction Accuracy of Healthcare Ontology, Application number: 202141011671 A, Publication Date: 26 March, 2021.

Deputation from BMSCE (Conclaves)

1. Invited as Academician in Expert Category for Research Conclave 2022 organized by Jain School of Computer Science and IT (Deemed to be University) on 29th September, 2022
2. Coordinated for 3rd Tech VC Conclave organized by VTU at The LaLit Ashok, Bengaluru from September 15, 2022 to September 16, 2022.

Inaugurations - as Chief Guest

1. “School of Artificial Intelligence” at Global Institute of Business Studies (GIBS), Bengaluru on 16th October, 2024 at 11am.

Workshops/ Programmes / Guest Talks Organized

1. One-week Faculty Development Programme on “Generative AI with Large Language Models” jointly organized by RNSIT and BMSCE during 23rd to 28th September, 2024. Targeted Audience: Faculties and Industrialists, Participants count: 70.
2. Innovative time traveling based logical reasoning competition, Time Rift organized on 18th May 2024. Targeted Audience: Students of BMSCE (Allied branches including AI-ML students), Participants count:30.
3. A digital cryptic treasure hunt challenge, “Uncharted 2.0” organized on 18th May 2024 (Saturday) at 11:00 AM. Targeted Audience: Students of BMSCE (Allied branches including AI-ML students), Participants count: 120.
4. A hands-on workshop on building chatbots using Retrieval Augmented Generation “RAG Chatbots Demystified” by Sushumna Singh (Data Science Associate at ZS Associates) on 2nd May 2024 (Thursday) at 11:00 AM. Targeted Audience: Students of BMSCE (Allied branches including AI-ML students), Participants count: 145.
5. A hands-on workshop on end to end data science project building, Data Unlocked by Vaishak Bhuvan M R (Advanced Analytics Consultant at Genpact AI) on 30th April 2024. Targeted Audience: Students of BMSCE (Allied branches including AI-ML students), Participants count:40.
6. Digital cryptography problem solving competition, Cipher Strike organized by Gradient Core on 29th April 2024. Targeted Audience: Students of BMSCE (Allied branches including AI-ML students), Participants count:29.
7. AI based 24 Hours Hackathon, Impact AI Hackathon by RP Nagaraj (Associate Professor at RVCE) and KV Vedantha Desikan (CG RPA) on 29th April 2024 (Monday) at 10:00 AM. Targeted Audience: Students of BMSCE (Allied branches including AI-ML students), Participants count: 92.

8. Placement Talk by AIML 2024 on placement skills and experience on 30th March 2024. Targeted Audience: Students of BMSCE (Allied branches including AI-ML students), Participants count:120.
9. Open coding challenge Code-A-Thon organized by Gradient Core on 19th March 2024. Targeted Audience: Students of BMSCE (Allied branches including AI-ML students), Participants count:50.
10. Expert series-6: A guest lecture on Generative AI & LLMs by Sriram C (Senior Software Development Engineer at NINELEAPS) on 22nd March 2024. Targeted Audience: Students of BMSCE (Allied branches including AI-ML students), Participants count:32.
11. Expert series-5: A guest lecture on Introduction to AI and Business Intelligence by Prasad Chitta (Senior Decision Intelligence and ML-Ops Practice Lead at TCS BFSI Analytics & Insights) on 15th February 2024. Targeted Audience: Students of BMSCE (Allied branches including AI-ML students), Participants count:72.
12. Expert series-4: A guest lecture on LLMs and Langchain (PhaseShift '23) by Ravi Ranjan (Data Science Manager at Publicis Sapient) on 15th December 2023. Targeted Audience: Students of BMSCE (Allied branches including AI-ML students), Participants count: 26.
13. Reverse engineering and cryptic analysis competition, Retro Design (PhaseShift '23) organized by Gradient Core on 15th December 2023. Targeted Audience: Students of BMSCE (Allied branches including AI-ML students), Participants count:29.
14. Data Science based hackathon mainly focused on Artificial Neural Networks and Convolution Neural Networks, Datathon by Sonali S (Software Development Engineer at NINELEAPS Technology) on 14th December 2023. Targeted Audience: Students of BMSCE (Allied branches including AI-ML students), Participants count:11.
15. Technical maze solving competition using Minecraft, The Maze Maniac 2.0 (PhaseShift '23) organized on 14th December 2023. Targeted Audience: Students of BMSCE (Allied branches including AI-ML students), Participants count: 17.
16. Logical reasoning competition Time Traveler's Quest organized on 1st September 2023. Targeted Audience: Students of BMSCE (Allied branches including AI-ML students), Participants count:17.
17. Expert series-3: A guest talk on Emerging and Converging Technologies by Dr. Devesh Vatsa VSM (Air Vice Marshal, Indian Air Force) on 21st August 2023. Targeted Audience: Students of BMSCE (Allied branches including AI-ML students), Participants count:131.
18. Expert series-2: A guest lecture on Artificial Intelligence - Roadmap to Success by Krish Naik (Co-Founder and CIO at iNeuron.ai) on 17th June 2023. Targeted Audience: Students of BMSCE (Allied branches including AI-ML students), Participants count: 76.
19. Technology-based cryptic digital treasure hunt competition, Uncharted organized on 26th May 2023 at 2:00 PM. Targeted Audience: Students of BMSCE (Allied branches including AI-ML students), Participants count: 81.
20. Hands-On Workshop by Mr. Varun Poladiya, Marketing Lead at Navan.ai, Co-founder of EduTronics on "Computer Vision" at 2:30pm in MEL-Lab 02, 7th floor, Platinum Jubilee Academic Block on 11th February, 2023. Targeted Audience: Students of BMSCE (Allied branches including AI-ML students), Participants count: 50.
21. Hands-On Workshop by Dr. Vidya Shankar, Data Scientist, and Mr. Ravi Kiran, Associate Director-Data/AI at Winwire on "AutoML" at 11:30am in MEL-Seminar Hall, 7th floor, Platinum Jubilee Academic Block on 3rd December, 2022. Targeted Audience: Students of BMSCE (Allied branches including AI-ML students), Participants count: 43.
22. A hands-on workshop on Automated Machine Learning by Vidhya Shankar (Data Scientist) and Ravi Kiran (Associate Director at WinWire) on 26th November 2022. Targeted Audience: Students of BMSCE (Allied branches including AI-ML students), Participants count: 50.

23. An Innovative technical maze solving competition, "Maze Maniac" organized on 25th November 2022 at 2:00 PM. Targeted Audience: Students of BMSCE (Allied branches including AI-ML students), Participants count: 50.
24. Expert Series -1: Guest Talk by Dr. Rahul Aralikatte, A Postdoctoral Researcher at MILA-Quebec AI Institute on "Introduction to Machine Learning" at 11am in the Auditorium – 1, Platinum Jubilee Academic Block on 16th March, 2022. Targeted Audience: AI-ML students of BMSCE, Participants count: 150.
25. C Programming Coding competition for 1st year students (800 students' approximately) in association with "Codechef" – A nonprofit organization on 21st March, 2017.
26. A Two-day workshop on "Fundamentals of Computers" under the banner of Dr. premachandra Sagar Centre for Social Services and Skill Promotion (DPSSKIP) during 11-12 December, 2015, Targeted Audience: School dropouts and Unemployed youths, Participants count: 24.

Social service related Workshops/ Programmes Organized / Functioned as Coordinator

1. 14th and 15th of December 2023: Faculty Coordinator of Machine Learning for the 9th Edition of Phase Shift, the International Annual Technical Symposium of BMS College of Engineering.
 2. 26-28, May, 2023: from Dept. of MEL, Coordinated for Inter Collegiate Techno Cultural Fest – UTSAV 2023 at BMSCE.
 3. 25th and 26th Nov, 2022: from Dept. of MEL, coordinated for conducting the International Level Annual Technical Symposium – Phase Shift 2022 held at BMSCE.
 4. 27-29, May, 2022: from Dept. of MEL, Coordinated for Inter Collegiate Techno Cultural Fest – UTSAV Envisage, 2023 at BMSCE.
 5. Associated with National High School, Subramanyapura, Bengaluru as part of AICTE Vidhyanjali Activity of ATAL tinkering yojana along with department of MEL, BMSCE students to motivate budding students towards higher studies from December 2023 till date.
 6. Associated with National High School, Basavanagudi, Bengaluru as part of AICTE Vidhyanjali Activity of ATAL tinkering yojana along with department of MEL, BMSCE students to motivate budding students towards higher studies from March 2022 till date.
- **SPANDANA: A Community Development Programme : support for Educational tour, Educational Adoption for the needy from Dept. of CSE, DSCE for the benefit of the society. Headed the team from 2012 to 2021.**
7. 20th May, 2020: Financial support towards Head injury, electric shock burns surgery and treatment by Dept. of CSE, DSCE executed on, Beneficiary: Mr. Yogesha K P, 33 years, village at chennapatna.
 8. 8th August, 2018: An educational adoption plan. Beneficiary: Financially Poor students of Govt. Higher Primary School [GHPS], Hannedoddi, Kolaganahalli post, Kanakapura Taluk, Ramanagaram District, Karnataka – 562112. Amount pooled: Rs. 82,000/- Beneficiary Count: 53.
 9. 30th June, 2017: An educational adoption plan. Beneficiary: Financially Poor students of Govt. Higher Primary School [GHPS], Hannedoddi, Kolaganahalli post, Kanakapura Taluk, Ramanagaram District, Karnataka – 562112. Amount pooled: Rs. 85,676/- Beneficiary Count: 41.

10. 29th June, 2016: An educational adoption plan. Beneficiary: Financially Poor students of Govt. Higher Primary School [GHPS], Hannedoddi, Kolaganahalli post, Kanakapura Taluk, Ramanagaram District, Karnataka – 562112. Amount pooled: Rs. 78,654/- Beneficiary Count: 36.
11. 2nd July, 2015: Financial support towards hearing aid purchase by Dept. of CSE, DSCE executed on. Beneficiary: Mr. Yogesha B R, 22 years.
12. 19th June, 2015: An educational adoption. Beneficiary: Financially Poor students of Govt. Higher Primary School [GHPS], Hannedoddi, Kolaganahalli post, Kanakapura Taluk, Ramanagaram District, Karnataka – 562112. Amount Pooled: Rs. 83, 250/ - Beneficiary Count: 34.
13. May, 2014: An educational adoption. Beneficiary: Financially Poor students of Govt. Higher Primary School [GHPS], Hannedoddi, Kolaganahalli post, Kanakapura Taluk, Ramanagaram District, Karnataka – 562112. Amount Pooled: Rs. 36, 300/ - Beneficiary Count: 15.
14. 18th Nov, 2013: Hearing Aid donation by Prof. Bhaskar Rao N, Professor, Dept. of CSE, DSCE, executed on Beneficiary: Ms. Suguna, 8th Standard, Govt. Higher Primary School [GHPS], Hannedoddi, Kolaganahalli post, Kanakapura Taluk, Ramanagaram District, Karnataka – 562112.
15. 20th Sep, 2013: An educational tour - visit to DSCE campus. Beneficiary: Students of Govt. Higher Primary School [GHPS], Hannedoddi, Kolaganahalli post, Kanakapura Taluk, Ramanagaram District, Karnataka – 562112. Beneficiary Count: 40.
16. 6th July, 2013: Financial support by Dept. of CSE, DSCE, jointly through Niram foundation towards surgery of a physically challenged, executed on. Beneficiary: Ms. Shabari, D/O Mrs. Susheelamma (aaya), DSCE, K S Layout, Bangalore – 78.
17. 29th July, 2013: Financial support (CET fees of Rs. 41,590/- & admission fees of Rs. 25,000/-) towards education by Dept. of CSE, DSCE. Beneficiary: Ms. Jyothi, Ex student of Govt. Higher Primary School [GHPS], Hannedoddi, Kolaganahalli post, Kanakapura Taluk, Ramanagaram District, Karnataka – 562112.
18. 16th May, 2013 & 20th June, 2013: Beneficiary: Students of Govt. Lower Primary School [GLPS], Shettygowdanadoddi, Bidadi Hobli, Ramanagaram District, Karnataka.
19. 4th Mar, 2013: An educational tour - visit to DSCE campus. Beneficiary: Students of Anatha Shishu Sevashrama, 14, 2nd cross, Wilson garden, Bangalore District, Karnataka. Beneficiary Count: 34.
20. 13th Nov, 2012: An educational tour - visit to DSCE campus. Beneficiary: Students of Govt. Lower Primary School [GLPS], Shettygowdanadoddi, Bidadi Hobli, Ramanagaram District, Karnataka. Beneficiary Count: 23.

Courses Completed

1. NPTEL online certified for completion of the course “Machine Learning and Deep Learning – Fundamentals and Applications” during July – Oct 2023, funded by MoE, Govt. of India.
2. Completed online workshop on “Leveraging Generative AI for Teaching Programming Courses” organized by AI&ML Center, IISc, instructed by Prof. Viraj Kumar, Visiting Professor @AI&ML Center, IISc, Bengaluru on 10-11, 17-18 June 2023. This workshop was funded by Bites, Bengaluru.
3. 4 weeks (48 hours) Live Online Industrial Training on Machine Learning and Artificial Intelligence” held during 16th January – 11th February 2023, organized by EduLakes Solutions LLP in Association with National Service Scheme (NSS) – IIT Roorkee.
4. NPTEL online certified for completion of the course “Python for Data Science” during January – February 2022, funded by MoE, Govt. of India.

5. Participated in GIAN (MHRD, Govt. of India) Supported Advanced Level Course on “Semantic Web” during April 11-15, 2016 organized by National Institute of Technology Karnataka, Surathkal.

Citations

1. Total Citations: 77
2. H-index: 5
3. I10 index: 2

Reviewer for International Conferences and Journals / Chaired Sessions at International Conferences

1. 2nd International Conference on Networking, Embedded and Wireless Systems (ICNEWS 2024) organized by Dept. of Electronics and Communication Engineering, BMSCE and IEEE Bangalore Section during 22-23 August, 2024.
2. IEEE International Conference on Communications and Computer Science – 2024 (InCCCS-2024) organized by Department of Computer Science Applications, Dept. of Electronics and Telecommunication, BMSCE and IEEE Bangalore Section during 22-23 May, 2024.
3. Chaired a Session at 2nd IEEE International Conference on Knowledge Engineering and Communication Systems-2024 (ICKECS-2024) organized by SJC Institute of Technology, Chickballapur-562101 during 18-19, April, 2024.
4. 2nd IEEE International Conference on Knowledge Engineering and Communication Systems-2024 (ICKECS-2024) organized by SJC Institute of Technology, Chickballapur-562101 during 18-19, April, 2024.
5. International Conference on Evolutionary Algorithms and Soft Computing Techniques(EASCT-2023) organized by R V Institute of Technology and Management, Bengaluru during 20-21, October, 2023.
6. AICTE Sponsored IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON) is organized at Nitte Meenakshi Institute of Technology, Bengaluru INDIA during 1st and 2nd September 2023 in association with IEEE Bangalore Section.

Papers Presented in International Conferences

1. Vaishak Bhuvan M R, Luke Abbatessa, Madhu Reddiboina, Monika Puttaramaiah, “ Monitoring of Nutrient Deficiency and Diseases in Lettuce Cultivation within Vertical Farms”, 2023 IEEE International Conference on Communication, Security and Artificial Intelligence (ICCSAI), Cosponsored by IEEE UP SECTION, Galgotias University, Geater Noida (U.P), India, 23-25 November, 2023.
2. P. C. Hiremath, R. G T, Monika. P, C. Kulkarni and V. Bhuvan M R, "Performance Evaluation of ML Techniques for Trust-Based Employee Behavioural Classification for Access Control in Organizations," 2022 IEEE International Conference on Knowledge Engineering and Communication Systems (ICKES), Chickballapur, India, 28-29 Dec, 2022, pp. 1-7, DOI: 10.1109/ICKECS56523.2022.10060527.
3. Chaitanya Kulkarni, Monika P, Shruthi S, Deepak B, Uday D, “Covid – 19 Fake News Detection using Glove and Bi-LSTM”, 2nd International Conference on Sustainable Expert Systems (ICSSES), Scopus indexed -Springer –Lecture notes in Networks and Systems, vol 351. Springer, February, 2022, DOI: 10.1007/978-981-16-7657-4_5.
4. Monika P, Sulochana Hegde, “A Survey on a Caption Generation for the Images using Deep Learning Technique”, International Conference on Applications of Artificial Intelligence and Computational Mathematics (AAICM), December 9, 2020.

5. Monika P, Raju G T, "Integration of Healthcare Ontologies at Schema Level using Customized Metadata", Best paper award at 3rd International Conference on Data Engineering and Communication Systems (ICDECS), December 19-20, 2019.
6. Monika P, Raju G T, "Integration of Healthcare domain Ontologies using Bayesian Networks", 3rd International Conference on Data Engineering and Communication Systems (ICDECS), December 19-20, 2019.
7. Monika, P., Raju, G.T. (2020). Effective Model Integration Algorithm for Improving Prediction Accuracy of Healthcare Ontology. In: Smys, S., Tavares, J., Balas, V., Iliyasu, A. (eds) Computational Vision and Bio-Inspired Computing. ICCVBIC 2019. Advances in Intelligent Systems and Computing, vol 1108. Springer, Cham. https://doi.org/10.1007/978-3-030-37218-7_126
8. D. Reddy, E. N. Hemanth Kumar, D. Reddy and Monika P, "Integrated Machine Learning Model for Prediction of Lung Cancer Stages from Textual data using Ensemble Method," 2019 1st International Conference on Advances in Information Technology (ICAIT), Chikmagalur, India, 2019, pp. 353-357, doi: 10.1109/ICAIT47043.2019.8987295
9. Monika P, Vinutha M R, Srihari B N, Harikrishna S, Sumangala S M, G T Raju, "Medical Diagnosis Guidance Using Semantic Web", International Conference On Computational Vision and Bio Inspired Computing (ICCVBIC), Indexed in SCOPUS, Google Scholar and SpringerLink-LN series, LNCVB, vol.28, ISSN: 978-3-319-71767-8, pp. 174-185, September 21-22, 2017, DOI: 10.1007/978-3-319-71767-8_14.
10. Monika P, G T Raju, "Hybrid Architecture for Rule Based Automated Decision Support in Healthcare", International Conference on Telecommunication, Power Analysis & Computing Techniques (ICTPACT), IEEE, ISSN: 978-1-5090-3381-2, April 6-8, 2017.
11. Monika P, G T Raju, "Semantic Web with Ontology Agents for Improved Search Results - A Survey", 2nd International Conference on Data Engineering and Communication Systems (ICDECS), December 28-29, 2015.

Papers Presented in International Journals

1. Monika P, Raju G T, "Integration of Healthcare domain Ontologies using Neuro-Fuzzy Networks", NeuroQuantology, Scopus Indexed Journal, vol. 20, issue 11, page 8790-8798, ISSN: 1303-5150, DOI: 10.48047/nq.2022.20.11.NQ66874, Article link: <https://neuroquantology.com/article.php?id=13112> Impact Factor: 0.29, September 22, 2022. Rating: Q4
2. Edeh Michael Onyema, Khalid K. Almuzaini, Fergus Uchenna Onu, Devvret Verma, Ugboaja Samuel Gregory, Monika Puttaramaiah, Rockson Kwasi Afriyie, "Prospects and Challenges of Using Machine Learning for Academic Forecasting", Computational Intelligence and Neuroscience, vol. 2022, Article ID 5624475, 7 pages, Impact Factor: 2.3, June 2022. <https://doi.org/10.1155/2022/5624475> Rating: Q2
3. Chaitanya Kulkarni, P Monika, Preeti B, Shruthi S, "A novel framework for automatic caption and audio generation ", Materials Today: Proceedings, Science Direct (Elsevier – Scopus Indexed) and CPCI (Conference Proceedings Citation Index, Clarivate) Indexed, Vol. 65, part 8, page 3248 – 3252, ISSN: 2214-7853, link: <https://www.sciencedirect.com/science/article/pii/S2214785322036793>, Impact Factor: 26.943, June 1, 2022, DOI: 10.1016/j.matpr.2022.05.380 Rating: Q2
4. Monika P, Chaitanya Kulkarni, Harish Kumar N, Shruthi S, Vani V, "Machine Learning Approaches for Sentiment Analysis: A Survey", International Journal of Health Sciences (IJHS), Scopus indexed, vol. 6, issue S4, page 1286-1300, Impact Factor: 2.95, ISSN: 2550-6978, April, 2022, DOI: 10.53730/ijhs.v6nS4.6119 Rating: Q4
5. Meghashree KM, Monika P, Radhika S, Soujanya D, Shilpashree S, Chaitanya K, "User Sentiment Mining using LSTM Networks", Journal of Huazhong University of Science

and Technology, Elsevier Scopus Indexed and UGC approved Journal, vol. 50, issue 07-2021, ISSN: 1671-4512, Paper ID: HST-0721-348, July, 2021.

6. Abdul Manaam Dar, Ankit Kumar, Abhinav Raj, Jay Prakash Kumar, Monika P, "A Literature Survey on Filtering Emails", International Research Journal of Engineering and Technology (IRJET), vol. 8, issue 1, ISSN: 2395-0056, Jan, 2021, Impact factor:7.529, paper link: <https://www.irjet.net/archives/V8/i1/IRJET-V8I1164.pdf>
7. Jyothishree S, Sai Kumar K G, Monika P, "Enhanced Distributed Energy Monitoring System for Smart Homes", International Journal for Research in Applied Science & Engineering Technology (IJRASET), vol. 8, issue II, ISSN: 2321-9653, Nov, 2020, Impact factor:7.429
8. Meghashree K M, Radhika S, Shilpashree A, Soujanya Dinni, Monika P, "Survey on Algorithms used for Sentiment Analysis", International Journal for Research in Applied Science & Engineering Technology (IJRASET), vol. 8, issue 5, ISSN: 2321-9653, May, 2020, Impact factor:7.429, Paper link: https://www.academia.edu/43164231/Survey_Paper_on_Algorithms_used_for_Sentiment_Analysis, DOI: 10.22214/ijraset.2020.5089
9. Jyothishree S, Sai Kumar K G, Monika P, "Distributed Energy Monitoring System for Smart Homes", International Journal for Research in Applied Science & Engineering Technology (IJRASET), vol. 8, issue 2, ISSN: 2321-9653, Feb, 2020, Impact factor:5.947, Paper Link : https://www.academia.edu/42100585/Distributed_Energy_Monitoring_System_for_Smart_Homes, DOI: 10.22214/ijraset.2020.2013
10. Monika P, Raju G T, "Integration of Healthcare Ontologies at Schema Level using Customized Metadata", International Journal of Innovative Technology and Exploring Engineering (IJITEE), Elsevier Scopus Indexed Journal, vol. 9, issue 2S, ISSN: 2278-3075, December 2019, DOI: 10.35940/ijitee.B1084.1292S19 Rating: Q4
11. Monika P, Raju G T, "Integration of Healthcare domain Ontologies using Bayesian Networks", International Journal of Innovative Technology and Exploring Engineering (IJITEE), Elsevier Scopus Indexed Journal, vol. 9, issue 2S, ISSN: 2278-3075, December 2019, DOI: 10.35940/ijitee.B1028.1292S19 Rating: Q4
12. Monika P, Raju G T, "Data Pre-Processing and Customized Onto-Graph Construction for Knowledge Extraction in Healthcare Domain of Semantic Web", International Journal of Innovative Technology and Exploring Engineering (IJITEE), Elsevier Scopus Indexed Journal, ISSN: 2278-3075, vol. 8, issue: 11, pp. 712-719, September 10, 2019. Impact factor 5.54, DOI: 10.35940/ijitee.K1423.0981119 Rating: Q4
13. Monika P, G T Raju, "Semantic Web with Ontology Agents for Improved Search Results - A Survey", Scopus indexed - International Journal of Applied Engineering Research (IJAER), ISSN 0973-4562, vol. 10, issue: 86, pp. 264-270, December, 2015. Rating: Q4 when applied but now in Q2

Papers Presented in National Conferences

1. Monika P, G T Raju, "Flight Dynamics Intelligent Executive [FDIX]", National Conference on Frontiers of Computer Science (FCS'11), May 19-21, 2011.

Workshops / Seminars / Webinars / Conferences attended

1. NVIDIA AI Summit on "Fireside Chat With Jensen Huang and Mukesh D Ambani: The Future of AI in India" organized by NVIDIA at Mumbai on 24th October, 2024.
2. One-week Faculty Development Programme on "Generative AI with Large Language Models" jointly organized by RNSIT and BMSCE during 23rd to 28th September, 2024.
3. 1-Day Digital Transformation Conclave organized by Dynatrace & Hitachi at LaLit Ashok, Bengaluru on 18th Sept 2024.

4. 1-Day Best Practices Meet on Data Security & Cyber Safety conducted by Data Security Council of India (DSCI) at Conrad, Bengaluru on Aug 28, 2024.
5. 1-Day conference TECHNATION, the flagship event of TechSagar, a DSCI initiative! At Scope Convention Center, New Delhi on Sep 14, 2023.
6. 1-Day Research & Academia Sub-summit conducted by Data Security Council of India (DSCI) at IIT-b on Aug 22, 2023.
7. 3 months online FDP on “Machine Learning and Deep Learning – Fundamentals and Applications” organized by NPTEL – AICTE, funded by Ministry of HRD, Govt. of India during July – Oct 2023.
8. 5-Day E-Workshop on “Scientific Communication for Researchers” conducted by R&D Center, BMS College of Engineering, Bengaluru during May 29- June 2, 2023.
9. 2-Day Workshop on Practices in Outcome Based Education organized by BMSCE Administration through Dean Academics at Seminar Hall, Dept. of ISE, PJ Block, BMSCE on 24-25 March, 2023
10. 2 Day event on 5th Bites Annual Convention 2022 with the theme “Industry 4.0: Opportunities & Challenges” organized by BITES at Infosys Campus, Mysuru on February 10-11, 2023
11. 1-Day national level seminar on “Digital Transformations under NEP 2020” conducted by IQAC, BMSCE in association with National Assessment and Accrediation Council (NAAC) on 15^h July, 2022.
12. 1-Day workshop on SWOC conducted by Department of Management Studies & Research Centre on July 9, 2022.
13. 1-Day online workshop on “Fine Tuning of NEP Compliance Syllabus – Disciplines under CSE Board of VTU” held at SJCIT, Chikkaballapur on 20th April, 2022.
14. 6-Days Hands-on Online Workshop on “Deep Learning using Python (Implementation and Research Areas)” organized by Computer Engineering Department, Cummins College of Engineering for Women during March 14-19, 2022.
15. 2 months online FDP on “Python for Data Science” organized by NPTEL – AICTE, funded by Ministry of HRD, Govt. of India during January – February 2022.
16. Webinar on “Open Source Tools for Research & Development” organized by the Department of Computer Science & Engineering, SJCIT on 5th February, 2022.
17. 2 months online FDP on “Python for Data Science” organized by NPTEL – AICTE, funded by Ministry of HRD, Govt. of India during January-February, 2022.
18. 5-Day international webinar on “ Industrial Mathematics and Scientific Computing” organized by the Department of Mathematics, BMS Institute of Technology and Management, Bengaluru during January 10-14, 2022.
19. NVIDIA GTC Nov 2021 – A global online conference sessions on December 1, 2021.
20. 6-Day Induction / Refresher program (3rd Phase) on “Future Wireless Communication: Standards & Technologies” organized by Dept. of ECE, KSIT, sponsored by AICTE-ISTE during 24-29, May, 2021.
21. Online webinar on “Intellectual Property Rights in Research and Innovation” organized by SJCIT in association with KSCST, IISc campus on 27th May, 2021
22. Attended sessions at NVIDIA GTC Nov 2021 – a global online AI conference for developers, researchers, thought leaders and technology decision makers on Dec 1, 2021.
23. 3-Day online webinar on “Webinar Series IT industry Trends” organized by Dept. of CSE, SIT during July 14-16, 2020.
24. 5-Day online FDP on “Agile Methodology” organized by Reva University, Bengaluru during July 14-18, 2020.

25. 5-Day online Webinar on “Effective Usages of Educational Technology in Teaching-Learning Process as a part of NBA Accreditation” organized by Dept. of CSE, IQAC-MSRIT under Margadarshan scheme sponsored by AICTE during June 22-26, 2020.
26. 3-Day online webinar on “Role and Importance of Preincubators and Incubators In Higher Education Institutions” and “Design Thinking and Innovation” organized by Institution’s Innovation Council, Govt. Engineering College, Ramanagara in association with Institution Innovation Council ministry of HRD initiative and AICTE during June 17-19, 2020.
27. 5-Day online FDP on “Emerging Applications in Deep Learning” organized by Dept. of CSE, RVCE, Bengaluru during June 8-12, 2020.
28. 5-Day online FDP on “NBA and NACC Accreditation Process” organized by IQAC, MSRIT under AICTE Margdarshan Scheme, Bengaluru during June 4-8, 2020.
29. Online workshop on “Neural Networks – Journey from Shallow to Deep Learning” organized by Dept. of ISE, Jain University on 5th June, 2020.
30. 2-Day online workshop on “Python with COVID-19 Data Web Scraping and MySQL” organized by Finland Labs in association with National Social Summit, IIT Roorkee during May 25-26, 2020.
31. 2-Day online workshop on “ML & AI using Covid-19 Virus Data Analysis” organized by Finland Labs in association with National Social Summit, IIT Roorkee during May 23-24, 2020.
32. Online webinar on “Digital Innovations and Transformations - Reflect changes in society and business” organized by Karnataka State Council for Science and Technology(KSCST) on 15th May, 2020
33. One-week Faculty Development Program on “Artificial Intelligence and Deep Learning” organized by E&ICT Academy IIT Guwahati at RNSIT during January 27-31, 2020.
34. 5-Day Faculty Development Program on “Machine Learning and Artificial Intelligence” at DSCE during August 7-11, 2018.
35. 3-Day Faculty Development Program on “Machine Learning” at RNSIT during July 19-21, 2018.
36. Workshop on AI and Deep Learning organized by IEEE on 6th September, 2017 at Philips Innovation Campus, Manyata Tech Park, Bengaluru.
37. 3-Day workshop on “Research Methodologies & Latex” organized by VTU e-Learning Centre, Mysuru from 18th to 20th February, 2016 at B. L. D. E. A’s Dr. P. G. Halakatti College of Engineering and Technology, Vijayapura.
38. Author workshop jointly organized by VTU, Belgaum & Springer@ Central College, City Campus, Bangalore University on 13th February, 2014.
39. Completed 144 hours of Professional Development @ Oracle Academy during February 2013.
40. Java workshop by Dr. Richard Coleman from the University of Alabama, Huntsville at DSI campus during 12th to 16th December, 2011.
41. Faculty Development Program on “High Impact Teaching Skills” at DSCE on 29th & 30th July, 2011.
42. “Campus Connect” – A Deep Drive Faculty Enablement Program at Infosys Technologies Ltd, Bangalore conducted by Infosys Technologies Limited during 22nd June – 26th June, 2009.
43. Workshop on “Compiler Design” at VKIT, Gudimavu, Kumbalagodu, Bangalore-74 on 19th & 20th February, 2009.
44. “High Impact Presentation Skills & Teaching Methology” Program at DSCE under CIL – DSI during 28th – 30th Jan, 2009.

Work at other Organizations

1. M.Tech., Project work – carried out at ISRO Satellite Centre, Bangalore from October 2010 to June 2011.

Co-curricular Activities Won/Participated

1. 2nd prize in Super Minute game jointly organized by Chirantana – Kannada Sangha and MBA Dept. as part of Teacher’s Day Celebration on 4th Sep, 2024.

Membership in International Bodies

1. IEEE Professional member (membership number: 98114690)
2. ACM Professional member (membership number: 3373394)
3. Indian Society for Technical Education (ISTE) (membership number: LM-140596)
4. Member in International Association of Engineers (IAENG)
5. Member in International Association for Computer Science and Information Technology (IACSIT)
6. Member in Computer Science Teachers Association (CSTA)
7. Scopus ID: 57194503213
8. Orchid ID: 0000-0002-5594-6034
9. Google Scholar ID: zkuSRagAAAAJ

Projects undertaken @ Industry / Academia / Research

Company Name: Vijaydhvaj AI Techsolutions Pvt. Ltd.

Address: #57, Kanakapura Main Road, J P Nagar, Bangalore South, Bangalore- 560078

CIN: U85500KA2024PTC192853

Incorporation Date: 06/09/2024

#1 Title: Aspire AI: UPSC Navigator

AspireAI: A UPSC Navigator is an innovative project developed out of the realms of Artificial Intelligence by the final-year students Vaishak Bhuvan M R, Kundan Rao S, and A Vaishnavi from the Department of Machine Learning at BMS College of Engineering, Bengaluru. AspireAI aims to serve as a learning aid for UPSC aspirants preparing for the preliminary exam in General Studies Paper I. It provides practice MCQs that align with UPSC standards across six different topics relevant to the syllabus. Additionally, it offers daily current affairs summaries to help candidates manage the extensive amount of current information they need to learn. The team plans to enhance the project in future iterations by adding new features, ultimately launching it to support UPSC aspirants in their exam preparation. **Environment:** Python, Generative AI with Large Language Model – Mistral, Hugging Face, StreamLit, Quantized LORA, NVIDIA GPU, Windows 11.

Client: GE CDF

Role: Developer

Responsibilities: Development of Edocs Loader Utility, Enhancement of the Applications, Bug fixing.

#2 Title: Customer Online Management Systems(COMS)

COMS is an Internet-based application that allows dealers to review account information and make paperless payments on inventory and Interest/Insurance/Fees charges. Dealers simply access COMS from the GE Commercial Distribution Finance (CDF) Internet site to use the application. It replaces the EASY host-on-demand application, simplifies system access and increases CDF web presence in direct response to customer

requests, reduces cost for CDF through the elimination of a third-party dial-up supplier.
Environment: *Java, JSP, Servlets, JavaScript, HTML, Windows XP, UNIX, Eclipse 3.0, Oracle 9i, JBoss 4.0.3, WSAD 5.0, TOAD and CVS*

#3 Title: EDOCS Loader

In order to generate PDF files[report] for the customer, COMS needs some data which is being generated and coming from AIMS[mainframe] application as form of different types of files. These files are being taken from a specified path and validated by eDocs Loader application. After successful validation, the required data is loaded into databases for further usage by COMS.

Environment: *Java, Windows XP, UNIX, Eclipse 3.0, Oracle 9i, JBoss 4.0.3., WSAD 5.0, TOAD and CVS*

#4 Title: SMB Reseller Finance

Up to \$250,000 Vendor Credit Line (Channel Finance Solution) Smaller technology product resellers are often faced with credit constraints, such as limited open account financing terms and credit capacity offered by key suppliers. To help smaller resellers gain a competitive edge, GE Commercial Distribution Finance created the Small-to-Medium-size Business Finance program (SMB Reseller Finance). With SMB Reseller Finance, resellers can increase purchasing power and working capital while potentially avoiding additional expenses. **Environment:** *Java, JSP, Servlets, JavaScript, HTML, Windows XP, Eclipse 3.0, Oracle 9i, JBoss 4.0.3. WSAD 5.0, TOAD and CVS.*

#5 Title: Flight Dynamics Intelligent Executive[FDIX]

FDIX provides an environment to execute any of the Flight Dynamics Software [FDS] modules on LINUX platform along with support for simultaneous execution of FDS programs for all the satellites in operational and analysis modes. It provides a menu-based user interface through which the user can select and execute any program or sequence of programs. This system works both in Interactive Console Mode as well as in GUI mode. The application maintains File System which is categorized as Current Database & History Database. Multiple satellites and multiple parallel runs are supported. FDIX deals with the operations of ISRO's existing, operational and future spacecrafts placed in geostationary orbits. This project work has been carried out at **ISRO Satellite Centre**, Post box no.1795, Airport road, Vimanapura Post, Bangalore – 17, India

Environment: *Red Hat Linux – V5, Apache Tomcat 6.0, Java, C, JSP, JavaScript and Servlets.*

#6 Title: ATM Transactions through Mobile

The project aims in offering the personalization and mobility of user mobile phone and the ATM functions of the bank. User can make transfers, payments, check book request, view account details, view statements, check balance and inquiries through his handset at anyplace-anytime. The application uses **J2ME MIDlets** and other available libraries to develop the presentation layer, the client and **J2EE** components such as Servlets, **EJBs** residing on an application server as the server.

Environment: *Windows, Java, Sun One Application Server, J2ME IDE and TextPad4.6*

#7 Title: Computer Graphics Editor

A Graphics Editor is a program that allows a user to create and manipulate images. This package provides features for drawing 2D Geometrical figures, Supports free hand drawing. Some of the file handling features, basic 2D transformations are also implemented. **Environment:** *Windows, C and TURBO C++.*

#8 Title: Simple Lexical Analyzer

Lexical Analyzer is a software program to read the input characters and produce as output a sequence of tokens that the parser uses for syntax analysis, also to tabulate Symbol table, Keywords table.

Environment: Operating System: UNIX, C and vi

#9 Title: Distributed Energy Monitoring System for Smart Homes

Funding Agency: Karnataka State Council for Science and Technology (KSCST)

Duration: Jan - May, 2020

Fund Amount: **Rs. 4500/-**

In this technology savvy world, IoT and smart homes have been emerging technologies. There is no smart home without IoT. All electronic gadgets used in a home are made smarter by connecting them to the internet using IoT. All manufactures are designing their next generation devices with additional hardware which helps connecting the device to WIFI. This additional hardware is designed to be used to remotely control or monitor the device, implementing distributed monitoring system for a smart home, thereby monitoring the power consumption of every electrical device at uniform interim of time. This data makes the user conscious on the amount of electricity being consumed leading to an eco-friendly life.

| Personal Details: | |
|--------------------------|---|
| Full Name | Monika P |
| Date Of Birth | 25 th Feb, 1986 |
| Gender | Female |
| Nationality | Indian |
| Residential Address | #783, "SRI OMKARA", 3 rd Block, Banashankari 6 th Stage, Turahalli, Near Khajaria Showroom at Chikkegowdanapalya, Bengaluru, Karnataka - 560109 |
| Hobbies | Playing Badminton, Chess, Carom, Throwball and Volleyball, Swimming, Tailoring, Painting, Creative crafts. |

Declaration:

I do here by declare that the information furnished above is true to the best of my knowledge.

Date:

Place: Bengaluru

[DR. MONIKA PUTTARAMAIAH]