

Dr. Gururaja H S

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Assistant Professor (Selection Grade)
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Education

- Ph.D. in Computer Science and Engineering under Jawaharlal Nehru Technological University (JNTU), Hyderabad.
- M.Tech in Computer Network Engineering under Visvesvaraya Technological University (VTU) at Dayananda Sagar College of Engineering, Bangalore.
- B.E., in Computer Science and Engineering under Visvesvaraya Technological University (VTU) at Sri Siddhartha Institute of Technology, Tumkur.

Professional Experience (18+ years)

- Assistant Professor, Department of Information Science and Engineering, B.M.S. College of Engineering, Bangalore – 560 019 (2011 – Till Date).
- Senior Lecturer, Department of Computer Science and Engineering, Auden Technology and Management Academy, Bangalore Rural – 562 112 (2008 – 2011).
- Lecturer, Department of Computer Science and Engineering, APS College of Engineering, Bangalore – 560 082 (2007 – 2008).
- Project Assistant, Department of Current Science, Indian Academy of Sciences (IAS), Bangalore – 560 080 (2004 - 2005).

Certifications

- **IUCEE International Engineering Educator Certification.**
- **Diploma of Completion** – UiPath Document Understanding.
- **VMware Certified Professional 5** Data Center Virtualization.
- **Diploma of Completion** – UiPath Academy Automation Developer Associate.
- **VMware Certified Associate** Data Center Virtualization.
- **VMware Certified Associate** Workforce Mobility.
- **VMware Certified Associate** Cloud.
- **IBM Mainframe Certification.**

Awards/Honors

- **Best Teacher Award** – Recipient of periodic performance award during the year 2008-09 at Auden Technology and Management Academy for outstanding performance for the period with commendable results, feedback from students and assessment by academic authorities of the institute.
- **M.Tech Batch topper** for all the 4 semesters at DSCE, Bangalore.

Capstone Projects

- Implementation and Deployment of Automation of Annual Performance Report for the Office of Establishment, BMSCE, Jul-Nov 2019.
- Implementation and Deployment of Student Database Management System Web Application for the First Year Dean's Office, BMSCE, Sep 2017-Jan 2018.
- Implementation and Deployment of Online Seating Arrangement with A-form, Indent and B-form generation examination software for the Office of Controller of Examination, BMSCE, Feb-May 2017.
- Implementation and Deployment of Semester End Examination Result Analysis Portal for the Office of Controller of Examination, BMSCE, Feb-Apr 2017.

Subject Expertise

- **Theory** – Artificial Intelligence, Machine Learning, Robotic Process Automation Design and Development, Computer Networks, Network Programming, Network Management Systems, Cryptography & Network Security, Digital Electronics, Microprocessors, Analysis and Design of Algorithms, Database Management Systems, Computer Programming.
- **Practical** – Machine Learning lab, Data Structures lab, Electronic Circuits and Logic Design lab, Microprocessors lab, Algorithms lab, Networks lab, Computer Programming lab, Database Management Systems lab.

Technical Publications

- A Novel Intrusion Detection System for Wired Enterprise Networks using Ensembled Machine Learning Models. Bulletin For Technology And History Journal (BTH) [An UGC Care Group-II Approved Journal], Volume 24, Issue 3, Journal Publication: March 2024, ISSN No: 0391-6715.
- A Novel Intrusion Detection System for Wireless Enterprise Networks using Ensembled Machine Learning Models. International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE), Volume 12, Issue 8, Journal Publication: August 2023, ISSN (Print): 2319-5940, ISSN (Online): 2278-1021, Impact Factor 8.102.
- Application of Few-Shot Object Detection in Robotic Perception, International Conference on Intelligent Engineering Approach (ICIEA-2022), ScienceDirect, February 2022 [**BEST PAPER AWARD**].

- Analysis of an Ensemble Model for Network Intrusion Detection. Proceedings published by Springer in the Book series Artificial Intelligence-enhanced Software and Systems Engineering, Electronic ISSN 2731-6033, Print ISSN 2731-6025, pp. 315-325 & presented at Int. Conference on Metaheuristics in Software Engineering and its Applications (METASOFT 2022), Siksha 'O' Anusandhan deemed to be University, Bhubaneswar, Odisha, March 11-12, 2022 [**BEST PAPER AWARD**].
- Explainable Machine Learning in Identifying Credit Card Defaulters, International Conference on Intelligent Engineering Approach (ICIEA-2022), ScienceDirect, February 2022.
- A Typical Analysis of Hybrid Covert Channel Using Constructive Entropy Analytics, International Journal of Electrical and Computer Engineering (IJECE), March 2022.
- Currency Detection for Visually Challenged People using Convolutional Neural Network Model, 2021 IEEE International Conference on Forensics, Analytics, Big Data and Security (FABS), December 2021.
- Detection of Traffic Violations using Moving Object and Speed Detection, Wutan Huatan Jisuan Jishu, Volume XVI, June 2020, ISSN: 1001-1749, Page No 61-72.
- Smart Video Surveillance System, Wutan Huatan Jisuan Jishu, Volume XVI, Issue VI, June 2020, ISSN: 1001-1749, Page No 186-194.
- Suitability of Single Image Super-Resolution Models for Video Super-Resolution, International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249-8958, Volume-9, Issue-5, June 2020, Page No 368-371.
- Automatic Number Plate Extraction, Journal of Emerging Technologies and Innovative Research (JETIR), Vol 4, Issue 4, ISSN 2349-5162, Apr 2017.
- Java 8: Rebirth to a Software Supergiant, International Journal of Engineering Research & Technology (IJERT), Vol 4, Issue 29, ISSN 2278-0181, Aug 2016.
- Blended MOOCs: Impacting The Future of Higher Education, Journal of Engineering Education Transformations (JEET), Volume 29, No.3, January 2016, ISSN 2349-2473, eISSN 2394-1707.
- Covertness Analysis of Subliminal Channels in Legitimate Communication. Proceedings published by Springer in the Lecture Notes in Computer Science (LNCS) Volume No. 7135, pp. 583-592, 2012 and Presented at International Conference on Advanced Computing, Networking and Security (ADCONS) 2011, NITK Surathkal, India, December 16-18, 2011.

Trainings/Workshops

- TEQIP-III sponsored 2-weeks FDP on Mechatronics and Artificial Intelligence organized by Dept. of Mechanical Engineering in association with FET, MJPRU from 29th July to 10th August 2019, BMSCE, Bangalore.
- TEQIP-III sponsored 1-week workshop on Robotic Process Automation Advanced Training jointly organized by Dept. of ISE, CSE, ECE in collaboration with UiPath from 17th June to 21st June 2019, BMSCE, Bangalore.

- Two-week ISTE workshop on Computer Programming conducted by IIT, Bombay from May 11 – June 15, 2014 (5 weeks) and June 16 – June 21, 2014 (1 week).
- International Summer School on Leading Edge Software Engineering conducted by NITK, Surathkal from March 3-8, 2014.
- Training Program on VMware vSphere: Install, Configure, Manage [VCP5.1] at Koenig Solutions Limited, Bangalore from October 7-11, 2013.
- Two-week ISTE workshop on Database Management Systems conducted by IIT, Bombay from May 21-31, 2013.
- Faculty Development Programme (FDP) on Alan M. Turing – Simplification in Intelligent Computing Theory and Algorithms from Dec 18-20, 2012 at PESIT, Bangalore.
- Campus Connect -Faculty Enablement Program (FEP) on the industry elective Building Enterprise Applications conducted by Infosys Technologies Limited from Jul 30 – Aug 3, 2012 at Infosys, Bangalore.
- Faculty Development Programme (FDP) on Advanced School on Graph Algorithms (ASGA-2012) from Jul 23-27, 2012 at BITS Pilani, Goa.
- Faculty Orientation Programme from Jan 23-28, 2012 at BMSCE, Bangalore.
- Campus Connect -Faculty Enablement Program (FEP) conducted by Infosys Technologies Limited from Jan 21 – Feb 1, 2009 at Infosys, Mysore.
- Faculty Development Programme (FDP) on Communications and Networking from Dec 21-26, 2009 at MSRIT, Bangalore.

Research Interests

Informatics & Computing, Cryptography & Network Security

Personal Details

Date of Birth: 14-03-1983
Father: Sri H. K. Satyanarayana
Marital Status: Married
Nationality: Indian
Lang. Spoken: English, Kannada, Hindi, Telugu
Activities: Attending Seminars, Tech-Talks

I hereby affirm that the information provided above is true and correct to the best of my knowledge.

Thanks & Regards,
Dr. Gururaja H S