SHRIDEVI A DESAI

Assistant Professor | Department of Machine Learning, BMS College of Engineering

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CAREER OBJECTIVE

Dedicated educator with 14 years of diverse experience, including 8 years in teaching and 6 years in industry, seeking an Assistant Professor position at a reputable institution. Passionate about fostering a positive learning environment and applying real-world insights to enhance student engagement and understanding. Proven ability to facilitate learning and inspire students, with a strong eagerness to contribute to research initiatives and foster a collaborative learning environment.

EXPERIENCE

Assistant Professor
Dept. of Machine Learning, BMS College of Engineering — *Aug 2025 – Present*

Assistant Professor
Dept. of CSE, RV Institute of Technology, Bengaluru — *Dec 2024 – Aug 2025*

Software Developer
Altair India Pvt Ltd, Bengaluru — *Jun 2022 – Aug 2024*

Embedded Software Developer
Bosch, Bengaluru — *Jun 2021 – May 2022*

Assistant Professor
Dept. of CSE, Dayananda Sagar University, Bengaluru — *Sep 2020 – Jun 2021*

Assistant Professor
Dept. of CSE, T John Institute of Technology & Management — *Aug 2016 – Jul 2020*

Lecturer
Oxford PU College, Bengaluru — *Aug 2015 – Aug 2016*

Software Engineer
Digital Group Infotech Pvt Ltd — *Feb 2007 – Mar 2010*

EDUCATION

Master of Technology, Computer Science and Engineering
Visvesvaraya Technological University — First Class with Distinction — *2014*

Bachelor of Engineering, Computer Science and Engineering
Visvesvaraya Technological University — First Class — *2006*

RESEARCH PUBLICATIONS

Book Chapters

- Desai, S.A. and Mahitha, G. (2022). “Ayurnano: A Solution Towards Herbal Therapeutics Using Artificial Intelligence Approach.” In Artificial Intelligence for Innovative Healthcare Informatics (pp. 247–262). Cham: Springer International Publishing.
- Desai, Shridevi A. “AgroBot: A Domain-Specific Agricultural Knowledge System Using Retrieval-Augmented Generation.” BMS College of Engineering, Bengaluru, India. Scopus ID: 60611622000.

Journal

- Shridevi A Desai, Shilpa MV. “Securing Wireless Networks against Multiple Spoofing Attacks.” International Journal of Engineering Research & Technology (IJERT), 2014, ISSN: 2278-0181.

TECHNICAL SKILLS

Programming Languages: C, C++, Python, TCL Scripting

Tools: Perforce, Git, Gerrit, Jenkins, RTC, Jira

Soft Skills: Communication, Teamwork, Problem-Solving, Mentoring

ACADEMIC ACHIEVEMENTS

- Serving as BOS Member and DAC Member, Department of Machine Learning.
- Contributing to NBA Criteria 1 (Vision, Mission & Program Outcomes) compliance and documentation.
- Guiding students through mini-projects and capstone projects.
- Proctoring a cohort of 32 students.
- Served as Department NAAC Coordinator for Research and Publications, Dayananda Sagar University.
- Received an incentive for achieving 100% results and demonstrating strong Rockefeller Habits practice at T John Institute of Technology.
- Served as Department Placement Coordinator, Result Analysis Coordinator, Seminar Coordinator, IA Coordinator, and Guest Lecture Coordinator at T John Institute of Technology.
- Guided students in various academic projects and seminars.
- Headed teams organizing cultural and college events, including national and international conferences, technical seminars, and Graduation Day, at T John Institute of Technology.

PROJECTS

Altair India

- Solver Conversion: Facilitated conversion of solver cards from source to destination formats, ensuring accurate translation of card data and functionality between different solver systems.
- Cross-Functional Collaboration: Worked closely with cross-functional teams to gather requirements, develop technical specifications, and ensure timely, successful project delivery.
- Code Quality & Reviews: Actively participated in code reviews, offering constructive feedback to enhance code quality and adherence to best practices.

Bosch

- Branch Bring-Up: Led the bring-up of new branches, ensuring compatibility and integration with the existing mainline branch.
- Configuration Providers: Developed and maintained configuration providers supporting various display driver functionalities.
- Security Policies: Updated and managed security policies to ensure compliance and enhance system protection.
- Manifest Files: Edited and updated manifest files for various topologies to ensure proper configuration and operation; managed documentation and materials for new branch bring-up, improving onboarding for new team members.

Dayananda Sagar University

Worked independently on the following projects based on requirements defined by the Head of the Department:

- Automatic PowerPoint Deck for Virtual Annual Convocation (Python): Independently generated a 1000+ slide deck for the university's virtual annual convocation, using a Python script to display each student's name, certificate, and photograph in sequence by reading data from Excel and image folders.
- Automatic Leave Application System (Google Apps Script): Generated leave application PDFs using employee data from a Google Form response sheet and a predefined template, then emailed the PDF to the employee automatically.
- Automatic Certificate Generation (Python, OpenCV): Built a script to auto-generate personalized certificates from an Excel data source and a template, eliminating manual, error-prone certificate creation for large events.

- Shopping Essentials Chatbot (IBM Cloud): Designed a virtual assistant for ordering everyday essentials such as vegetables, featuring price and offer listings, instant customer query responses, and additional support for common COVID-19 queries.

EVENTS ATTENDED

- 5-day workshop on “Sensitization of NBA Process,” BMS College of Engineering.
- 5-day FDP on “Industry-Driven AI: From Foundations to Real-World Deployment,” BMS College of Engineering.
- 15-day FDP on “Machine Learning with Python,” E & ICT Academy, IIT Kanpur.
- 6-day workshop on “Emerging Technologies followed by a Project Build-a-Thon,” IBM India University Relations.
- Industry Training Program on “Creating Augmented Realities,” Next UP, Bengaluru.
- 2-day Faculty Development Program on “Python Programming for Data Science and IoT,” RNSIT in association with Bites.
- Industrial Training on “Big Data and Data Science,” TechLogik Learning Services, Bengaluru.
- Faculty Knowledge Program, IBS, Bengaluru.
- 2-day workshop on “IoT and Cloud Computing Boot Camp,” in association with Nihaar Technologies.

EVENTS ORGANISED

- Actively participated in organizing the Induction Program for first-year students.
- Coordinated guest lectures for final-year students delivered by industry experts, T John Institute of Technology.
- Organized industrial training for all faculty of the Department of CSE and ISE, TJIT, Bengaluru.
- Headed teams organizing institute-level cultural and technical events, including national and international conferences, technical seminars, and Graduation Day.

COURSES HANDLED

- Data Structures using C
- Design and Analysis of Algorithms
- Database Management Systems
- Theoretical Fundamentals of Computation
- System Software & Compiler Design
- C Programming
- Unix Shell Programming
- Unix System Programming
- Software Testing
- User Interface Design Programming Lab
- and more

STRENGTHS

- Effective Communication Skills
- Time Management Skills
- Collaborative Team Player
- Student Engagement
- Adaptability & Problem-Solving Skills

PERSONAL INFORMATION

Date of Birth: 10 December 1983

Languages Known: Kannada, English, Hindi

Art & Craft: Dot Mandala, Lippan Art, and more

Sports: Badminton, Throwball

Cultural: Emcee for multiple events at TJIT; active participant in group activities at Altair