

PRARTHANA AMIT GHADIGAONKAR

Assistant Professor | CSE AIML Department

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Maharashtra, India

PROFESSIONAL SUMMARY

Dedicated and result-oriented Computer Engineering & Computer Science faculty member with over 14 years of teaching experience across undergrad engineering and tech platforms. Holds an M.E. in Computer Engineering (First Class) from University of Mumbai. Demonstrated proficiency in curriculum implementation, outcome-based education matrix tracking, software architecture deployment, and hands-on research. Possesses an expansive programming background in C, C++, Java, Python, and advanced areas including IoT, Big Data Analytics, AI/ML models, and Cybersecurity protocols. Steered 25+ major undergrad capstone and 20+ mini engineering projects, actively driving technological updates through targeted FDP tracks and university syllabus orientation committees.

CORE ACADEMIC & TECHNICAL EXPERTISE

- **Programming Frameworks:** C, C++, Java, Python, PHP, JavaScript, SQL syntax.
- **Advanced Technology Domains:** Internet of Things (IoT), Big Data Analytics, Deep Learning & Artificial Neural Networks.
- **Cyber & System Security:** Ethical Hacking, Cyber Forensics, Network and Cloud Infrastructure Security.
- **Systems & Architecture:** Linux / Ubuntu Deployment, Software Engineering Paradigms, Enterprise E-Commerce Frameworks.
- **Academic Administration:** Project Mentoring, Capstone Thesis Guidance, University Examination Oversight, Outcome Based Education.

PROFESSIONAL TEACHING EXPERIENCE

SSPM's College of Engineering, Kankavli — Assistant Professor (Computer Engineering / Computer Science / CSE)

Tenure Timeline: 2012 — Present (14+ Years Academic Tenure)

- Execute dynamic classroom instruction and structural laboratory components for baseline and advanced computer disciplines.
- Formulate rigorous evaluation protocols, orchestrating both internal assessment matrices and external University oral/practical engineering exams.
- Provide technical stewardship to over 25 major undergraduate research project allocations, guiding students through agile frameworks.
- Contribute actively to specialized university syllabus scheme design workshops aligned with National Education Policy (NEP 2020) requirements.

ACADEMIC QUALIFICATIONS

Degree/Qualification	Institution / University Board	Classification	Year
M.E. in Computer Engineering	A.C. Patil College of Engineering, University of Mumbai	First Class	2023
B.E. in Computer Engineering	SSPM's College of Engineering, University of Mumbai	First Class	2009
HSC (Science Profile)	Maharashtra State Board	First Class	2005
SSC (General Matriculation)	Maharashtra State Board	Distinction	2003

RESEARCH PUBLICATIONS & SCHOLARLY CONFERENCES

- **June 2025:** Presented peer-reviewed paper titled 'A Stacked LSTM-based Deep Learning Approach for Forecasting Nifty 50 Market Lows' at the 3rd International Conference on Inventive Computing and Informatics (ICICI 2025), S.E.A. College of Engineering & Technology, Bengaluru.
- **2024-25:** Published 'Gesture-Activated Cursor Control' in the Journal of Emerging Technologies and Innovative Research (JETIR), Reference ID: JETIR2411189.
- **Jan 2017:** Published 'Secure Authentication Using Click Draw Based Graphical Password Scheme' in the International Journal of Advanced Engineering Research and Science, Vol. 04, Issue 1 (ISSN 2349-6495).
- **Jan 2016:** Published 'Severable Recoverable Data Covering in Encrypted Image by Creating Chamber for Data' in the International Journal on Recent and Innovation Trends in Computing and Communication, Vol. 4, Issue 1 (ISSN 2321-8169).
- **March 2016:** Presented 'Image Scrambling Techniques for Image Encryption: A Survey' at national venue NCATM-2016, A.C. Patil College of Engineering, Navi Mumbai.
- **2016:** Published 'Severable Recoverable Data Covering in Encrypted Image by Creating Chamber for Data' at the Pragyanam - ICRTCEE'16 International Level Conference.
- **Dec 2015:** Published 'A Comprehensive Survey on Image Scrambling Techniques' in the IJSR Journal, Vol. 4, Issue 12.
- **Dec 2014:** Published 'Using Self Organizing Map for Abnormal Behavior Detection' in the International Journal of Advanced Technology in Engineering and Science, Vol. 02, Issue 12 (ISSN 2348-7550).
- **Dec 2012:** Presented 'Neurophone: A DSP Based Brain Mobile Phone Interface Using Wireless EEG Headset' within the NCET-2012 conference proceedings.

SHORT TERM TRAINING (STTP) & FACULTY DEVELOPMENT PROGRAMS

- **Jan-Apr 2026:** NPTEL-AICTE Faculty Development Programme - 'Introduction to Industry 4.0 and Industrial Internet of Things' (Rigorous 12-Week Track, Certified with Elite Ranking at Consolidated Score: 80%).

- **Dec 2025:** Five-Day Online FDP on 'MATLAB Driven Approaches to Machine Learning, Deep Learning and Big Data', hosted by Department of ECS, Rizvi College of Engineering, Mumbai.
- **Dec 2025:** AICTE Training And Learning (ATAL) Academy FDP on 'Quantum Technology – A Transformative Approach to Next-Generation Computing' at SSPM's College of Engineering.
- **Nov 2025:** Five-Day High-End FDP on 'Emerging Trends in Cyber Security', organized by Department of CSE, A.C. Patil College of Engineering, Kharghar.
- **July 2025:** One-Day State Level Online FDP on 'Virtual Labs: Hands-on Outreach Workshop', Department of EXTC, SNJB's Shri Hiralal Hastimal Polytechnic, Chandwad in structural partnership with IIT Bombay.
- **July 2025:** Live Advanced Training Module: 'File and Commercialize Patent on Your Own', provided via corporate mentors at MYCrave Consultancy and Services.
- **May 2025:** One-Week Faculty Development Focus on 'High Performance Computing & AI', organized by YBIT Sawantwadi in technological collaboration with CDAC Pune and Walchand College of Engineering, Sangli.
- **Jan 2025:** AICTE Training And Learning (ATAL) Academy FDP on 'Principles, Techniques and Perspectives on Optimization Techniques in Engineering Applications and Future Trends', SSPM's College of Engineering.
- **Aug 2024:** International Corporate-Led FDP track on 'Machine Learning and Artificial Intelligence', executed by ExcelR solutions.
- **Jan 2024:** Professional Technical Track on 'Data Analytics & Cloud Computing using Microsoft Azure Ecosystem'.
- **Dec 2023:** Institutional STTP on 'Introduction to DevOps Frameworks', SSPM's College of Engineering, Kankavli.
- **Dec 2022:** Professional Engineering Module on 'Advanced Applications in IoT (AAI)', SSPM's College of Engineering.
- **July 2022:** Specialized Technical FDP on 'Geospatial Big Data Analytics', hosted at Don Bosco Institute of Technology, Mumbai in technical sponsorship with IEEE-GRSS.
- **Jan 2022:** Advanced Technical Workshop on 'Deep Learning Applications with KERAS (DEEPAK)', SSPM's College of Engineering, Kankavli.
- **Nov-Dec 2017:** Engineering Training Series on 'Internet of Things Architecture', A.C. Patil College of Engineering, Navi Mumbai.
- **Nov 2016:** Advanced Training Focus on 'Big Data Analytics paradigms', Saboo Siddik College, Mumbai.
- **2015:** National Level STTP on 'Introduction to Design of Algorithms', sponsored by IIT Kharagpur at Remote Centre Shivaji University, Kolhapur.
- **June 2013:** Technical Orientation on 'Cloud Computing & Software Services', SSPM's College of Engineering, Kankavli.
- **2011:** National Level Foundation STTP on 'Software Development Techniques for Teachers of Engineering and Science Institutes', hosted by IIT Bombay at Remote Centre KIT, Kolhapur.
- **Jan 2011:** Specialized Workshop on 'Software Architecture Design Patterns: Concepts & Implementations', Xavier Institute of Engineering, Mumbai.
- **Dec 2010:** Technical Training on 'Python Programming and Web Application Framework (PYLONS)', SSPM's College of Engineering.
- **Dec 2010:** National Level ISTE Workshop on 'Database Management System Foundations', sponsored by IIT Bombay at Remote Centre DKTE, Ichalkaranji.

FACULTY ORIENTATION PROGRAMS & INDUSTRY WORKSHOPS

- **July 24, 2025:** Faculty Orientation Session on 'Analysis of Algorithm', Department of Computer Engineering, Lokmanya Tilak College of Engineering & Shivajirao S. Jondhale College of Engineering.
- **July 21, 2025:** Faculty Syllabus Orientation Module for 'CPP-Java Programming (Subject Course 2303611)' hosted at Thadomal Shahani Engineering College, Bandra.
- **July 11, 2025:** Strategic Professional Workshop: 'Financial Literacy Workshop', executed under the statutory Career Katta state initiative by Maharashtra Information Technology Support Centre (MITSC).
- **Jan 16, 2025:** Syllabus Reconstruction Workshop: 'Python Programming for FE-SEM-II Rev NEP 2020 Syllabus Scheme Architecture', hosted at SSPM's College of Engineering, Kankavli.
- **Aug 2024:** Faculty Orientation Track on 'C Programming Paradigm Alignment', LTCOE, Navi Mumbai.
- **July 2023:** Multi-Track Faculty Orientations for 'Big Data Analytics Frameworks' across computational clusters (AI/ML Track at VESIT, Computer Engineering Track at DBIT, and EXTC engineering tracks at DBIT, Mumbai).
- **July 2023:** Multi-Track Faculty Orientations for 'Internet of Things Architectures' (AI/ML Track at VESIT and core Computer Engineering tracks at VESIT, Mumbai).

PEDAGOGICAL & DOMAIN COURSE DELIVERY

- Core Engineering and CSE Modules:

C Programming (delivered 14+ cycles), Data Structure(delivered 4+ cycles) Web Engineering Frameworks, Web Technology Systems, Structured Programming Approaches, E-Commerce Systems, Software Architecture Blueprints, Operating System Frameworks, Analysis & Design of Algorithms, Environmental Engineering, Numerical Computational Techniques, Discrete Structures, Internet of Things Deployment, Big Data Analytics infrastructure, and Linux Kernel Operating Systems.

- B.Sc. Computer Science Specializations:

Python Programming (Levels I & II), Java Enterprise Programming (Levels I & II), Software Testing Frameworks & Quality Assurance Analysis, Game Design Programming Logic, Ethical Hacking Foundations, and Cyber Forensic Investigation Methods.

- Electronics & Telecommunication Tracks:

Big Data Analytics Modules, Artificial Neural Networks & Fuzzy Logic Algorithms, and Linux Operating System Core Systems.

ACADEMIC LEADERSHIP & INSTITUTIONAL RESPONSIBILITIES

- Undergraduate Capstone Project Director & Seminar Advisory Lead.
- Appointed Class Coordinator and Dedicated Technical Student Mentor.
- Empaneled University Internal & External Examiner for Oral, Practical, and Capstone Project defenses.
- Certified Assessor for University End-Semester Theory Evaluations (Online Centralized Assessment and Offline Frameworks).
- Departmental Academic Taskforce member orchestrating criteria files for institutional audits.

PERSONAL PROFILE & DETAILS

- **Date of Birth:** 06 January 1987
- **Gender & Nationality:** Female | Indian
- **Language Proficiencies:** Fluent in English, Hindi, and Marathi.
- **Permanent Address:** At Wagde, Namaswadi, Post Gopuri, Tal. Kankavli, Dist. Sindhudurg, Maharashtra - 416602.

I hereby declare that the details itemized above accurately mirror verified academic and tenure records to the absolute threshold of my knowledge.

Place: Kankavli, India

Date: _____

(PRARTHANA AMIT GHADIGAONKAR)