

SHREYAS YEROLE

Assistant Professor | AI & Data Science | Computer Engineering

+91 9067088427 | shreyas.yerole2002@gmail.com | [linkedin.com/in/shrey-yerole](https://www.linkedin.com/in/shrey-yerole) | github.com/shrey4369

OBJECTIVE

Dedicated and enthusiastic educator with a strong academic background in Artificial Intelligence, Data Science, and Computer Engineering. Possessing hands-on teaching experience across diverse subjects and a passion for research-driven instruction. Seeking an Assistant Professor position to contribute meaningfully to student development, curriculum design, and applied research at a progressive university.

EDUCATION

Master of Engineering – Artificial Intelligence and Data Science

AISSMS College of Engineering, Savitribai Phule Pune University | Sept 2024 – August 2026 | CGPA: 8.98

Bachelor of Engineering – Computer Engineering

Nutan Maharashtra Institute of Engineering and Technology, SPPU | July 2019 – May 2023 | CGPA: 9.00

HSC (12th Standard)

Pratibha Junior College | April 2018 – February 2019 | Percentage: 81.08%

SSC (10th Standard)

SM Dr DY Patil English Medium School | June 2016 – March 2017 | Percentage: 85.40%

TEACHING EXPERIENCE

Teaching Faculty – AISSMS Polytechnic, Pune | January 2025 – Present

Delivered structured and engaging lectures as a teaching staff member in the Computer Science discipline with flexibility across multiple subjects.

- Subjects Taught: OOP in C++, Linux, UI/UX Design, Information and Communication Technology (ICT), Web Programming & Concepts (WPC), Mobile Application Development, and Emerging Trends in Computer Engineering.
- Demonstrated adaptability in handling diverse subjects across different semester groups with minimal preparation lead time.
- Mentored students through practical lab sessions, encouraging problem-solving and applied learning.
- Maintained academic records, participated in departmental activities, and assisted in assessment design.

RESEARCH INTERESTS

Machine Learning & Deep Learning | Computer Vision | Natural Language Processing | AI in Education | Cybersecurity & Digital Forensics | Web Technologies

RESEARCH PROJECTS & DEVELOPMENT WORK

Fusion-Based Anti-Theft Detection System | Python, YOLOv11, CNN-LSTM, TensorFlow

- Developed a hybrid deep learning system combining YOLOv11 for real-time weapon detection and a CNN-LSTM architecture for violence/fight detection, achieving an overall accuracy of 91%.
- YOLOv11 enables high-speed object detection to identify weapons in surveillance frames, while the CNN-LSTM model captures spatiotemporal patterns in video sequences to classify violent behaviors.
- The fusion-based approach integrates both models to deliver a robust, multi-layered anti-theft and security monitoring solution applicable in public spaces, campuses, and smart city infrastructure.
- Research contributions span Computer Vision, Video Analytics, and AI-based Surveillance — with potential for publication in security and intelligent systems domains.

PAN Card Fraud Detection Using Machine Learning | *Python, CNN, TensorFlow*

- Designed and trained a Convolutional Neural Network (CNN) model to classify PAN card images as genuine or counterfeit, achieving 87% accuracy.
- Implemented robust image pre-processing pipelines; analyzed feature patterns distinguishing real versus fake documents — relevant to Digital Forensics and AI Security research.
- Demonstrated practical understanding of deep learning architectures, model evaluation, and real-world application of AI in identity verification.

React-Based Password Manager | *ReactJS, Node.js, MongoDB, ExpressJS*

- Developed a full-stack password management application with a React-based frontend and MongoDB backend for secure credential storage.
- Implemented CRUD operations, user-friendly UI design principles, and structured database schema — showcasing proficiency in modern MERN stack development.
- Applicable as a case study for teaching Web Development, Database Management, and Application Security courses.

PUBLICATIONS & CONFERENCES

Journal Publications

[1] **Yerole Shreyas Vishwanath**, "*Intelligent Robbery Detection System Using YOLOv8 and Convolutional Neural Networks: A Case Study*," International Journal of Research Publication and Reviews (IJRPR), ISSN: 2582-7421, Vol. 6, Issue 5, May 2025. [[Impact Factor: 6.844](#) | [A+ Grade](#) | [Open Access Peer Reviewed](#)]

[2] **Shreyas Yerole**, "*Smart Threat Monitoring System Using Hybrid YOLOv11 And CNN-LSTM Networks*," JZU Natural Science, ISSN: 1671-6841, Vol. 56, Issue 11, November 2025. [[Scopus Active Indexed](#) | [Manuscript ID: JZUNS11/2601](#)]

[3] **Shreyas Yerole**, "*A Real-Time Anti-Theft and Violence Intensity Detection System Using YOLOv11 and CNN-LSTM*," Vesper Journal, ISSN: 2704-7598, Vol. 10, Issue 2, 2026. [[Scopus](#) | [Web of Science](#) | [Crossref](#) | [Impact Factor: 4.7](#) | [Manuscript ID: vesper10021588](#)]

[4] **Shreyas Yerole**, "*Recent Advances in Generative AI and Large Language Models: Current Status, Challenges, and Perspectives*," International Journal of Sciences and Innovation Engineering (IJSCE), ISSN: 3049-0251, Vol. 03, Issue 05, May 2026. [[Crossref DOI: 10.70849](#) | [Google Scholar](#) | [Keepers Registry](#) | [ResearchGate](#) | [Paper ID: 627040534796](#)]

Conference Presentations

[1] **Shreyas Yerole**, "*Fusion-Based Real-Time Surveillance System for Weapon Detection and Violence Severity Analysis Using YOLOv11 and CNN-LSTM*," presented at the 6th International Conference on Recent Trends in Engineering, Technology and Management (ICRETEM 2026), Suguna College of Engineering, Coimbatore, India, April 10-11, 2026. [[In association with OSIET, Chennai](#) | [Collaboration: Samarkand State University, Uzbekistan](#)]

TECHNICAL SKILLS

Programming Language: Python

AI & ML Frameworks: TensorFlow, Keras, Scikit-learn, PyTorch

Data Analysis & Visualization: NumPy, Pandas, Matplotlib, Seaborn, Plotly

Computer Vision: OpenCV, YOLOv8, YOLOv11, CNN, CNN-LSTM

Database: SQL, MongoDB

Tools & Platforms: Jupyter Notebook, Google Colab, VS Code, GitHub

CERTIFICATIONS & ACHIEVEMENTS

- Foundations: Data, Data, Everywhere – Google Data Analytics Certificate via Coursera
- English Proficiency – English Score Certification by British Council Board
- Completed coursework in Artificial Intelligence Engineering: Data Science with Python, Machine Learning, Deep Learning using Keras & TensorFlow, and AI Capstone Project
- District Level School Sports Competition participant – Ball Badminton
- Volunteer – Techcult Event, organized by the college