

Pranjal Pathare

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Professional Summary

Computer Science undergraduate specializing in Artificial Intelligence and Analytics at MIT Art, Design and Technology University. Skilled in Machine Learning, Data Science, Python, SQL, Tableau, and Power BI with hands-on experience in AI-driven and analytics-based projects. Passionate about problem solving, intelligent systems, and data visualization, with practical exposure through internships, certifications, and research work.

Education

MIT ADT University, Pune

B.Tech in Computer Science Engineering (AI & Analytics) | CGPA: 7.63
2023 – 2027 (Expected)

Technical Skills

- Programming Languages: Python, SQL, HTML, CSS, R Programming, C++
- Machine Learning & AI: Data Preprocessing, Model Evaluation, Random Forest, Computer Vision, NLP, Keras, TensorFlow, Scikit-learn, Generative AI, Agentic AI
- Frameworks & Libraries: Pandas, NumPy, Matplotlib, Django, OpenCV, Streamlit, Bootstrap, Chart.js, Node.js, Next.js, Flask, React, React.js
- Data Visualization & BI Tools: Tableau, Power BI
- Databases: MySQL, Chroma Vector DB, SQLite
- Tools & Platforms: VS Code, Jupyter Notebook, Git, GitHub, PyCharm, Cisco Packet Tracer, Microsoft Excel, Microsoft Word, Microsoft PowerPoint
- Operating Systems: Windows, Linux

Areas of Interest

Artificial Intelligence, Machine Learning, Data Analytics, Business Intelligence, Deep Learning, Computer Vision, Generative AI, Intelligent Systems, and Research.

Languages

1. English
2. Hindi
3. Marathi

Projects

- **AI Traffic Management System** – Developed an AI-driven traffic optimization system using OpenCV and Machine Learning for vehicle detection, congestion analysis, and adaptive signal control.
- **Finance Tracker** – Built a finance management application for expense tracking, budget analysis, and report generation using Python, SQLite, Streamlit, and data visualization tools.
- **HR Recruiting System** – Developed an NLP-based recruitment system for automated resume screening and skill-based candidate-job matching.
- **LifeVault – Secure Digital Document Management System**
Developed a full-stack web application to securely upload, manage, preview, download, and organize personal documents with expiry tracking and automated email reminders. Implemented search, category filtering, dashboard analytics, pagination, and OCR-based document text extraction
- **Neural Correlates of Visual Saliency Research Project** – Worked on research analyzing whether AI explanation methods align with the human visual cortex. Explored visual saliency, explainable AI (XAI), deep learning interpretations, and human visual perception. Research paper selected for publication at ICICIT and invited for IEEE conference presentation.

Research & Publications

- Research paper titled “Neural Correlates of Visual Saliency: Do AI Explanation Methods Align with Human Visual Cortex?” selected for publication at ICICIT and invited to attend the IEEE conference.

Experience & Internship

- Machine Learning Intern – Prodigy InfoTech (June 2025 – July 2025)
Worked on Machine Learning model development, data preprocessing, evaluation techniques, and optimization tasks.

Certifications

- Python for Data Science, AI & Development – IBM
- Introduction to Data Analytics – IBM
- Python Project for Data Science – IBM
- Principles of Generative AI – Infosys
- Deep Learning Developer – Infosys
- Generative models for developers - Infosys

Achievements & Recognition

- Research paper selected for publication at ICICIT and invited to attend IEEE conference.
- Completed Machine Learning Internship with outstanding remarks.
- Winner – Inter-College & VSM Cricket Tournament.
- Runner-Up – Inter-College Cricket Tournament.

Soft Skills

Problem Solving, Team Collaboration, Leadership, Communication, Adaptability, Quick Learning