

Pranjali A. Chaudhari

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M.Tech Data Science student with expertise in **LLM Security, Machine Learning & AI Safety**. Peer-reviewed researcher with papers accepted at ICAIS 2026 and ETFI 2026. Hands-on industry experience in ML pipelines. Seeking entry-level roles in **AI/ML Engineering, Data Science or Python Development**.

TECHNICAL SKILLS

Languages	Python · SQL · Java · JavaScript
ML / AI	Machine Learning · Deep Learning · CNN · NLP · LLMs · Prompt Engineering · AI Safety · Federated Learning
Data	Pandas · NumPy · EDA · Feature Engineering · Scikit-learn · Model Training & Evaluation
Tools	PyTorch · Power BI · Git · Jupyter Notebook · Google Colab · VS Code · Matplotlib

EXPERIENCE

AI / Data Science Intern

Aug 2025 – Nov 2025

DATASMITH AI Solutions, Pune

- Built end-to-end data preprocessing & cleaning pipelines for structured real-world datasets.
- Supported ML model training, validation, and performance evaluation workflows.
- Performed advanced feature engineering using Pandas & NumPy to improve model performance.

PROJECTS

AI Chatbot — Bhagavad Gita & Chanakya Niti *LLMs · RAG · Prompt Engineering* 2025

- Built domain-specific LLM chatbot using Retrieval-Augmented Generation (RAG); reduced hallucination via curated knowledge grounding.

Cervical Cancer Detection via Multimodal Deep Learning *CNN · XAI · PyTorch* 2025 – Present

- CNN model for cervical cell classification integrating clinical features; applied Explainable AI (XAI) to interpret predictions.

Federated Learning for Privacy-Preserving Crop Disease Prediction *Federated Learning · Python* 2026

- Designed distributed ML workflow without centralizing farm data; studied convergence and privacy-preserving strategies.

Packaging Industry Data Analysis & Visualization *Power BI · EDA · Pandas* 2023

- Cleaned production datasets; built interactive Power BI dashboards tracking KPIs and defect patterns.

RESEARCH & PUBLICATIONS

Evaluating Security of Instruction-Tuned LLMs Against Adversarial Prompt Attacks *ICAIS 2026 – Accepted* 2026

- Camera-ready at ICAIS 2026, NMIMS Indore; proposed lexical sanitization reducing adversarial attack success by **32.14%**.

Adaptive Risk-Aware Multi-Layer Defense Framework for Securing LLMs *Under Review* 2026

- Multi-layer LLM defense with adaptive risk scoring; achieved **93.3% defense accuracy** in experimental evaluation.

Review: Multimodal & Explainable DL for Cervical Cancer Detection *ETFI 2026 – Accepted* 2026

- Accepted & presented at ETFI 2026, DESPU; synthesized 20+ IEEE papers on multimodal DL and XAI.

EDUCATION

M.Tech in Data Science *MMCOE, Pune* 2024 – Present

CGPA: 8.61 / 10

B.Tech in Mechanical Engineering *VIIT, Pune* 2019 – 2023

CGPA: 8.51 / 10

HSC (Class XII) *Maharashtra State Board* 2019

Percentage: 84.92%

SSC (Class X) *Maharashtra State Board* 2017

Percentage: 93.20%

CERTIFICATIONS

- Generative AI Fundamentals — *Databricks*
- Python for Data Science & ML — *Udemy*
- Python for Everybody — *Coursera*
- Full Stack Web Dev Bootcamp — *Udemy*

ACHIEVEMENTS

- Papers at **2 intl. conferences** (ICAIS 2026, ETFI 2026)
- Scored **98/100** in Cyber Security coursework