SAKSHI VEDI

MSc Artificial Intelligence and Machine Learning, IIIT Lucknow

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PROFESSIONAL SUMMARY

MSc AI & ML candidate at IIIT Lucknow with strong expertise in Python, Machine Learning, Deep Learning, Data Analysis, Computer Vision, DBMS, and Applied Mathematics.

EDUCATION

MSc (IT) - Artificial Intelligence & Machine Learning — Current
Indian Institute of Information Technology, Lucknow — *CGPA: 8.2/10*

BSc - Mathematics
Maharshi Dayanand Saraswati University, Ajmer, Rajasthan — *74.27%*

EXPERIENCE

Teaching Experience — Jan 2021–Jan 2022
Sujangarh — *Rajasthan*

– Taught mathematics to 50+ students.

Teaching under VSI powered by HEFA — July 2025–Ongoing
IIIT — *Lucknow*

Projects

- **Smart Resume Assistant (FLAN-T5, Fine-Tuning, Streamlit)** — Ongoing
  - Merged fine-tuned LLM with GenAI-based resume enhancer in a unified app.
  - Fine-tuned FLAN-T5 on resume QA pairs for contextual responses.
  - Built Streamlit interface for bullet enhancement and AI suggestions.

- **Deepfake Detection System using Deep Learning (ResNet-18)** — GitHub
  - Built a deepfake detection system using ResNet-18 CNN architecture.
  - Trained the model on 10,000 real and AI-generated facial images.
  - Achieved reliable classification accuracy in identifying manipulated content.

- **Eye Drowsiness Detection System (YOLOv8, Python, Streamlit)** — GitHub
  - Developed a real-time eye state monitoring system using YOLOv8.
  - Implemented an alert mechanism that triggers within 2–3 seconds of drowsiness.
  - Trained on a custom dataset of 137 labeled images with test/train/validation splits.

- **Palm Line Detection and Interpretation (YOLOv8, Python, OpenCV)** — GitHub
  - Designed a palm line detection system using YOLOv8 with 80% real-time precision.
  - Built an OpenCV-based video pipeline processing 25+ FPS.
  - Developed an algorithm interpreting line patterns to personality traits.

TECHNICAL SKILLS

- **Languages & Tools**: Python, SQL, Pandas, NumPy, OpenCV, Excel, Power BI, Git, GitHub, Jupyter, VS Code
- **AI/ML**: Computer Vision, Deep Learning, Machine Learning, Natural Language Processing(NLP), RAG, Prompt-based generation, Predictive Modeling, Fine-tuning, Transformers, LLM, Langchain, Huggingface, Cloud Computing
- **Workflow & Deployment**: MLOps, Model Deployment, Streamlit
- **Business & Strategy**: EDA, Model Justification, GenAI Data Insights, Ethical Reasoning, AI Strategy
- **Soft Skills**: Strategic Thinking, Analytical Reporting, Communication, Creativity

CERTIFICATIONS & ACCOMPLISHMENTS

- **Optimizing Revenue Leakage and Profitability in the Hospitality Sector by IIT Guwahati** — GitHub
- **Tata Group GenAI Powered Data Analytics Completion Certificate**
- **IIT JAM 2024**: AIR 1247 (top 8% of ~15000 candidates) in Mathematical Analysis