Adityavardhan Jain

Ahmedabad, Gujarat

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Professional Summary

AI/ML graduate with hands-on experience in Computer Vision, AI Research, and Data Analytics. Proficient in Python, MLOps, and data science with a proven track record on Deep Learning and Automation projects.

Work Experience

Data Analyst **Dec 2024 – Present**

Tatvic Analytics *Ahmedabad, India*

- Analyzed multi-channel datasets in **GA4, BigQuery, and SQL**, uncovering conversion gaps and driving data-backed marketing strategies for leadgen and publisher clients, improving CVR by 4–5%.
- Built **automated workflows** with **n8n and Google Agentspace**, eliminating manual reporting by 60% and enabling faster client decisions.
- Performed **root cause analysis (RCA)** to resolve tracking anomalies, restoring accuracy across client reports, reducing data discrepancy by 80–90%.
- Delivered 10+ advanced **martech analyses** (attribution, cohort, funnel) using SQL and statistics.
- Improved **data pipelines and processes**, reducing latency and documenting templates for scalable and reproducible analysis.

Computer Vision and AI Research Engineer **Jul 2024 – Dec 2024**

Codenscious Technologies *Indore, India*

- Contributed to **Legolas**, a YOLO-powered pothole detection system with an mAP of 95%, geospatial tagging, and dashboards for real-time road condition monitoring.
- Designed and optimized a **CV pipeline**, integrating **IoT, computer vision, and data analytics**, showcasing scalability and economic impact.
- Conducted research on **SLAM and ROS2 simulations**, assessing model accuracy and applicability.

Data Science Research Intern **July 2023 - July 2024**

Center of Advanced Research and Engineering, IIST *Indore, India*

- Worked on Brain Computer Interface Research focusing on cognitive effects of voluntary actions by studying EEG Signals
- Utilized Deep Learning, Data Science, Signal Processing and Data Visualization Tools to complete research objectives.
- Contributed in the drafting of a research paper which won the first prize at ACET Research Conference.

Key Projects

NeuroTetris: BCI-Controlled Gaming System — *Python, Data Science, Deep Learning* Aug 2023 – Jun 2024

- Conducted research on **EEG signal processing**, applying statistical modeling and machine learning to classify neural patterns with 80% accuracy.
- Performed **EDA** on EEG datasets to evaluate noise, variability, and feature importance, improving model robustness.
- Implemented **signal filtering, feature extraction, and real-time control mapping** in Python.

Tesseract: AI Legal Document Processor — *BERT, Image Processing, Web Frameworks* May 2024 – Jun 2024

- Built a **Flask-based AI chatbot** capable of summarizing Indian legal documents using **Gemini API**.
- Implemented **OCR & NLP pipelines** for text extraction, summarization, and translation (Hindi English).
- Deployed via **Render & GitHub Pages**, integrating an **interactive frontend** with file/image upload support.
- Focused on a **low-cost, scalable architecture** for accessibility in the legal-tech domain.

Technical Skills

Programming: Python, C, C++, Bash

Machine Learning: TensorFlow, PyTorch, Scikit-learn, Generative AI, Computer Vision, SLAM

Data Science and Analytics: Pandas, NumPy, Matplotlib, SQL, Statistical Modeling, Data Visualization, Image Processing, GA4

Software Development: System Design, MLOps, Flask, Streamlit, Docker, GCP, Prompt Engineering

Advanced Tools: Git/GitHub, Google Agentspace, Algorithm Optimization, Data Pipelines, ROS, Raspberry Pi

Education

Indore Institute of Science and Technology **May 2025**

B.Tech. in Artificial Intelligence and Machine Learning (CGPA: 8.03/10) *Indore, Madhya Pradesh, India*

Certifications & Leadership

Best Paper Award: "Neural Signatures of Eye Blinking: EEG Analysis for Inferencing Complex Cognitive Processes."

Winner, Smart India Hackathon (SIH) 2023: Software Edition — Ministry of Defence's Computer Vision Problem Statement.

Google Developer Student Clubs (GDSC) Lead (2023–24) and **CodeChef IIST Chapter Lead (2024–25)**.

Certified in **Python for Data Science** and **Data Science: Inference and Modelling** by Harvard University (edX).

Spot Award for Exceptional Performance at Tatvic