

Aditya Gupta

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SUMMARY

A highly motivated B.Tech student and Machine Learning enthusiast with hands-on experience developing and deploying production-ready models. Proficient in deep learning, data science, and cloud technologies from an internship at Larsen & Toubro. Eager to contribute to innovative AI projects.

EXPERIENCE

IT Internship & AI Certification

May 2025 – Jul 2025

Larsen & Toubro (L&T)

- Earned an industry certification in AI & Edge Computing, specializing in TinyML and model optimization techniques.
- Gained hands-on experience implementing computer vision models with TensorFlow Lite and Edge Impulse.
- Developed and deployed a "Fault Detection in Manufacturing" model, improving quality assurance processes.

Deloitte Virtual Internship

Jul 2025 – Present

Forage

- Engaged in a technical job simulation training program focused on practical applications in AI, Data Engineering, and Cloud Computing.

PROJECTS

QA System with RAG

Python, Ollama, RAG, Transformers

- Co-developed a fact-checking system that retrieves and verifies information from PDF documents using a Retrieval-Augmented Generation (RAG) pipeline.

Industrial Casting Defect Detection

Python, TensorFlow, Keras, CNNs, Computer Vision

- Built and trained a CNN to automatically identify defects in industrial casting images, achieving high accuracy for quality control.

Random Forest Robustness Analysis

Python, Scikit-learn, Streamlit, Django

- Engineered a data-agnostic framework to test Random Forest accuracy and developed an interactive UI for parameter tuning and visualization.

ACHIEVEMENTS

Technical Core Member, Freelancing Club, VIT Bhopal

EDUCATION

VIT Bhopal University, Sehore

Expected 2027

B.Tech, Computer Science

Lucknow Public School, Lucknow

12th Grade: 88.3% – 10th Grade: 94.5%

TECHNICAL SKILLS

ML & Deep Learning Supervised & Unsupervised Learning, NLP, RAG, LLMs, Transformers, Computer Vision, Model Optimization, TinyML.

ML Libraries TensorFlow, Keras, Scikit-learn, Pandas, NumPy, Seaborn, OpenCV.

Programming Python, C++, SQL.

Web Frameworks Django, Flask, FastAPI, Streamlit.

Developer Tools AWS (EC2, Beanstalk), Azure ML, Git & GitHub, MATLAB.