

# Aditya Gupta

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## SUMMARY

A highly motivated Data Science and Machine Learning enthusiast seeking the Associate Data Scientist internship at Motorq. Eager to apply a strong foundation in Python, SQL, and data analytics to generate high-impact insights from large-scale datasets. Particularly interested in leveraging hands-on experience with Gen AI, including RAG and Transformers, to contribute to Motorq's innovative data and analytics products.

## EDUCATION

- **VIT Bhopal University, Sehore** **Expected 2027**  
B.Tech, Computer Science (Artificial Intelligence & Machine Learning); CGPA: 9.06
- **Lucknow Public School, Lucknow**  
12th Grade: 88.3% - 10th Grade: 94.5%

## TECHNICAL SKILLS

- **Programming & Data Analysis:** Python, SQL, Pandas, NumPy, Scikit-learn.
- **Generative AI & Deep Learning:** RAG, LLMs, Transformers, NLP, Computer Vision, Model Optimization, TinyML, TensorFlow, Keras.
- **Data Visualization:** Streamlit, Seaborn, Matplotlib.
- **Developer Tools & Cloud:** AWS (EC2, Beanstalk), Azure ML, Git & GitHub, MATLAB.
- **Web Frameworks:** Django, Flask, FastAPI.

## PROJECTS

- **QA System with Generative AI (RAG)** *Python, Ollama, RAG, Transformers*
  - Designed and implemented a Gen AI system to address the challenge of verifying information across large PDF documents, replacing manual fact-checking.
  - Developed a Retrieval-Augmented Generation (RAG) pipeline to generate insights and verify information contextually, significantly improving analysis efficiency.
- **Industrial Casting Defect Detection** *Python, TensorFlow, Keras, CNNs*
  - Analyzed a large dataset of industrial images to resolve inconsistencies in manufacturing quality control and automate the error-prone manual inspection process.
  - Achieved over 95% accuracy in defect identification by training a CNN, delivering a reliable and efficient analytics model for the quality assurance pipeline.
- **Random Forest Robustness Analysis** *Python, Scikit-learn, Streamlit*
  - Engineered a data-agnostic framework to generate insights on Random Forest model performance against varied data and parameters.
  - Deployed an interactive UI with Streamlit for real-time hyperparameter tuning and visualization, creating a reusable tool to improve model validation.

## 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.

## ACHIEVEMENTS

- Technical Core Member, Freelancing Club, VIT Bhopal