

Aditya Kumar

 github.com/Aditya |  [Portfolio Website](#) |  [linkedin.com/Aditya](https://www.linkedin.com/Aditya) |  adi.professional.life@gmail.com

Education

Nitte Meenakshi Institute of Technology

B.Tech. Artificial Intelligence and Data Science

June 2025

Delhi Public School, Noida

CGPA: 7.64/10

Class 12th - Central Board of Secondary Education

May 2021

St. Mary's Senior Secondary School, Banda

Percentage: 87%

Class 10th - Central Board of Secondary Education

May 2019

Percentage: 85%

WORK EXPERIENCE

BCG GenAI Intern

July 2024 – Aug 2024

- Completed a job simulation involving AI-powered financial chatbot development for BCG's GenAI Consulting team.
- Gained experience in Python programming, including the use of libraries such as pandas for data manipulation.
- Integrated and interpreted complex financial data from 10-K and 10-Q reports, employing rule-based logic to create a chatbot that provides user-friendly financial insights and analysis.

Cognizant AI Intern *Certificate*

June 2024 – July 2024

- Completed a job simulation focused on AI for Cognizant's Data Science team.
- Conducted exploratory data analysis using Python and Google Colab for one of Cognizant's technology-led clients, Gala Groceries.
- Prepared a Python module that contains code to train a model and output the performance metrics for the Machine Learning engineering team.
- Communicated findings and analysis in the form of a PowerPoint slide to present the results back to the business.

Ineuron.ai Machine Learning Intern

March 2024 – June 2024

- Conducted comprehensive Exploratory Data Analysis (EDA) on the Zomato Dataset.
- Developed and implemented machine learning models for accurate rating prediction.
- Utilized diverse algorithms to tailor a robust predictive model specific to the Zomato Dataset.
- Enhanced accuracy in restaurant rating forecasts, contributing to strategic business initiatives.

Projects

LangChain PDF Interact | *Streamlit, LangChain, PyPDF2, Hugging Face Transformers, FAISS, Replicate*

[GitHub](#)

- Built an advanced interactive chatbot application using Streamlit, LangChain, and Hugging Face Transformers for sophisticated conversation and in-depth document analysis.
- Enabled seamless multi-format document processing with PyPDF2, Docx2txt, and TextLoader, handling PDFs, DOCX, and TXT files efficiently.
- Utilized FAISS and HuggingFaceEmbeddings to enable high-speed similarity search and create detailed document embeddings across large text datasets.
- Designed a highly intuitive user interface for natural language queries, delivering precise and relevant responses based on comprehensive document content.

Multi-Modal AI Voice Assistant | *Groq, Google Generative AI, Whisper, OpenCV, pyttsx3, pyperclip, PIL*

[GitHub](#)

- Developed a sophisticated multi-modal AI assistant that integrates Groq and Google Generative AI, delivering advanced text and image-based responses to user inputs.
- Implemented comprehensive image processing functionalities, including screenshot capture and webcam image analysis, to provide detailed context and enhance the assistant's response accuracy.
- Facilitated clipboard text extraction and seamlessly integrated it into the assistant's responses, enriching user interactions with additional relevant information.
- Designed a versatile user interface that supports both text input and manual command selection, allowing for a flexible and interactive experience with the AI assistant.

Real-time Object Detection & Tracking | *OpenCV, Tracker*

[GitHub](#)

- Engineered real-time object tracking with Python, OpenCV, and Euclidean distance tracking.
- Applied advanced computer vision techniques like background subtraction and contour detection.
- Demonstrated Python proficiency and algorithmic optimization to enhance object tracking performance.

Skills

Core Subjects: Operating Systems (OS), Database Management Systems (DBMS), Computer Networks (CN), Cloud Computing

Programming: Python, SQL, Numpy, Matplotlib, Seaborn, Streamlit, Selenium, Statistics, Plotly

Machine Learning: Data Preprocessing, Feature Engineering, Model Selection, Model Building, Model Training, Hyperparameter Tuning, Supervised Learning, Unsupervised Learning

Deep Learning: ANN, CNNs, RNNs, PyTorch, Transfer Learning, Model Optimization

Computer Vision: OpenCV, YOLO, Object Detection, Real-time Processing

MLOps: Model Deployment, Continuous Integration/Continuous Deployment (CI/CD), Model Versioning, Automation, Containerization (Docker)