



AMAN DEVA

B.Tech.

Mechanical Engineering

Motilal Nehru National Institute of Technology Allahabad,

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GitHub Profile

LinkedIn Profile

Portfolio Link

EDUCATION

•Motilal Nehru National Institute of Technology

2025

B.Tech. in Mechanical Engineering

CGPA: 6.76

•Central Hindu Boys School

2020

Intermediate, CBSE

Percentage: 88.2

PROJECTS

•AI-Powered Customer Support Chatbot

Dec. 2024

Developed an intelligent chatbot using a fine-tuned Gemini LLM, ReactJS, and Firestore for real-time customer support.

- Fine-tuned Gemini LLM for classifying and processing policy queries and complaints.
- Used Firestore for real-time complaint management and structured data in JSON for tracking.
- Implemented RAG with FAISS/ChromaDB and OCR for accurate query responses and data retrieval.
- Developed a ReactJS frontend to display complaint statuses and lifecycle stages.

•Time Series Forecasting of Stock Market

July 2024

Conducted EDA, stationarity checks, and ARIMA modeling, achieving 96.59% accuracy (3.41% MAPE) for stock predictions.

- Performed in-depth EDA of stock market data and visualized the per day closing price of the stock.
- Applied statistical techniques like Hypothesis testing, Dicky-Fuller test, and ACF/PACF plots to evaluate data.
- Checked the stationarity and identified the nature of the data using the adfuller test and null hypothesis.
- Implemented Time Series Analysis using ARIMA; achieved approximately 3.41% MAPE, indicating about 96.59% accuracy in predicting the next 15 observations.

•Twitter Hate Speech and Abusive Language Detection

June 2024

Developed a binary classifier to detect offensive language on Twitter for automated moderation.

- Used a GitHub dataset to classify tweets as hate speech, offensive, or neutral.
- Performed EDA, text preprocessing (stopword removal, lemmatization, tokenization), and feature extraction (BOW, Bi-Grams, TF-IDF).
- Trained SVM, Logistic Regression, and Naive Bayes; Logistic Regression achieved 94% balanced accuracy.
- Deployed the model via Streamlit and integrated VADER for sentiment analysis in social media text.

TECHNICAL SKILLS AND INTERESTS

Programming Languages: Python, C, C++

Skills: Statistical Analysis, Machine Learning, Deep Learning, NLP

Developer Tools: Jupyter, Git

Data Visualization & Analysis: Matplotlib, Exploratory Data Analysis (EDA), SQL

Soft Skills: Teamwork, Adaptability, Problem-Solving, Project Management

Areas of Interest: Data Science, Data Structures and Algorithms, Full Stack Development

POSITIONS OF RESPONSIBILITY

•Discipline Incharge (Culrav-Avishkar 2024)

March 2024

Responsible for ensuring smooth and orderly conduct of our annual Techno- Cultural Fest

•Member of Green Club

June 2022 - Present

Organised and managed a 1-day cleanliness drive for college students along with my team.

ACHIEVEMENTS

•Gate CS Secured AIR 987 in GATE CS & IT 2k24 among over 1 lakh candidates

- Global Rank 981 in Leetcode(open profile) weekly Contest 413
- Global Rank 1316 in Leetcode(open profile) Weekly Contest 411

CERTIFICATIONS

•Udemy Learnt Fine Tuning LLM with Hugging Face Transformers for NLP. Mastered Transformer models like Phi2, LLAMA; BERT variants, and distillation for advanced NLP applications on custom data.

Certificate: View here

•Data Avengers In this bootcamp I learnt Python, Statistics, SQL and Machine learning.

Certificate: View here