AMAN DEVA
B.Tech.
Mechanical Engineering
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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

•Time Series Forecasting of Stock Market *July 2024*
Conducted EDA, stationarity checks, and ARIMA modeling, achieving 97.5% accuracy (2.5% 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 2.5% MAPE, indicating about 97.5% 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 the Hate Speech and Offensive Language Dataset from GitHub, with tweets categorized as hate speech, offensive language, and neither.
- Conducted EDA and text preprocessing (stopword removal, lemmatization, tokenization) for model readiness.
- Applied feature engineering techniques (BOW, Bi-Grams, TF-IDF) for pattern recognition in offensive language.
- Trained SVM, Logistic Regression, and Naive Bayes models; Logistic Regression achieved balanced class accuracy with 94%.
- Used VADER for sentiment analysis, optimizing for social media-specific text challenges.
- Deployed the Logistic Regression model in a Streamlit app for effective content moderation.

• 2D Plotter *Feb - April 2023*
2D plotter is capable of drawing computer processed binary images on a page.

- Tools used: Arduino Uno, CNC Shield, Stepper and Servo Motor, Drv8825 motor driver
- Technologies used: Arduino IDE, Inkscape, MI GRBL
- A 2D plotter is capable of drawing computer-processed binary images on a page. Arduino controls the movements of the stepper and servo motors along the X, Y, and Z-axis. The image file is transformed into G-code via Inkscape. Then, the code is transferred to the microcontroller, by which the motor mechanism is instructed to draw the image.

Technical Skills and Interests

Programming Languages: Python, C, C++
Skills: Machine Learning, Statistical Analysis, Natural Language Processing (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

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 weekly Contest 413
- Global Rank 1316 in Leetcode Weekly Contest 411