Data Scientist/ML engineer

B.Tech. - Computer Engineering - Data Science *2020-2024*

My Portfolio: https://nastymafia.github.io/MyPortfolio/

Summary

Myself **Nitish**, I enjoy finding patterns in messy data and turning them into something useful. With a background in **Computer Engineering**, focus on **Data Science**, I've built projects that predict, analyse, and occasionally surprise me. I prefer clear code, honest numbers, and learning something new with every dataset.

PROJECTS

Insurance Claim Prediction

- Developed a machine learning web application to predict whether an insurance claim would be approved.
- Trained multiple classification models including Decision Trees and Random Forest. Used Matplotlib for data visualization and deployed the best-performing model.
- Achieved a model accuracy of **87%**, leading to a **20% improvement** over baseline predictions.

Tech Stack: **Python, Pandas, Matplotlib, Regression, Decision Trees**
GitHub: https://github.com/NastyMafia/Insurance-Claim-Prediction

Sentiment Analysis

- Developed a model to detect public sentiment in social media posts, with a focus on identifying depressive or negative content.
- Cleaned and pre-processed tweets using NLTK, implemented Logistic Regression for sentiment classification, and visualized patterns with WordCloud and Matplotlib. Evaluated model performance with an emphasis on false positive and false negative rates for depressive content.
- Achieved an overall 82% accuracy, with improved detection of depressive posts and analysis on 10,000+ tweets.

Tech Stack: **Python, NLTK, Matplotlib, WordCloud**
GitHub: https://github.com/NastyMafia/Sentiment_Analysis

Sales Analysis

- Analyse historical sales data to uncover patterns and forecast future trends.
- Performed EDA using Pandas, Seaborn, and Matplotlib; built interactive dashboards with Tableau and Power BI.
- Identified key trends and top-performing regions, resulting in a 15% improvement in forecast accuracy.

Tech Stack: **Python, Pandas, Matplotlib, Seaborn, Tableau**
GitHub: https://github.com/NastyMafia/Sales_Analysis

Real-Time Chat Application

- Created a live messaging platform to enable real-time user communication.
- Implemented bidirectional communication using Web Sockets with SocketIO and Flask. Built a dynamic frontend with React and backend using Flask.
- Supported message latency under **200ms.**

Tech Stack: **React, Flask, WebSockets, Socket.IO, Node.JS**
GitHub: https://github.com/NastyMafia/Real-Time-Chat-App

CONTACT

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SKILLS

Hard Skills:

- Data Warehousing
- Machine Learning
- Survey Data Collection
- Data Modelling
- Data Mining
- SQL

***Techniques*:**

- Predictive Analytics
- Data Visualization

Tools and Software:

- Python
- SQL
- TableAU
- JavaScript
- HTML/CSS

***Languages*:**

- English
- Hindi

EDUCATION

B.Tech. - Computer Engineering with Data Science
J.C Bose University of Science & Technology, **YMCA Faridabad**
08/2020 - 06/2024

PASSIONS

- Modding
- Creative Problem Solving
- Photo/ Video Editing

OPEN-SOURCE CONTRIBUTIONS

Contributed to the fan-made expansions of the popular tower defence game *Mindustry including* ***Mindustry: Sapphirium*** **&** ***Mindustry: Overhaul***, helping implement new content, testing, balance changes, and quality-of-life improvements.