TUSHAR SAXENA

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Education

VIT Bhopal University India
Bachelor of Technology in Computer Science and Engineering *Oct 2022 - Present*

Personal Summary

Proficient in computer science and data analysis, with experience in analyzing data sets containing 100,000+ records to derive actionable insights and visualize trends, achieving 20% improvement in operational efficiency. Proficient in utilizing modern technologies to optimize workflows and deliver impactful solutions, including reducing processing time by 30% in a recent project. Strong communication and teamwork skills demonstrated in leading 3+ collaborative projects and contributing to innovative technology and analytics solutions.

Technical Skills

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R
Frameworks: React, SpringBoot , Flask, FastAPI
Platforms: AWS, SalesForce, Azure , Google Cloud Platform, Unity Engine
Developer Tools: Git, Docker,Power BI, Tableau, Android Studio
Libraries: Tensorflow, Opencv, Keras, pandas, NumPy, Matplotlib
Relevant Coursework: Data Structures & Algorithms, Operating Systems, Object-Oriented Programming, Database Management Systems, Software Engineering

Projects

Stock Movement Analysis Based on Social Media Sentiment Oct 2024 - Dec 2024

- Developed a predictive ML model analyzing sentiment from 2,000+ Reddit posts using NLP. Achieved 75% accuracy in forecasting stock movements and improved sentiment precision by 15% over benchmarks.
- Key Contributions:
  1. Data Scraping: Scraped stock market discussions from platforms like Twitter and Reddit using Python libraries (BeautifulSoup, Scrapy).
  2. Data Analysis: Performed sentiment analysis to extract key features like sentiment polarity and frequency of mentions.
  3. Prediction Model: Designed and trained a machine learning model using scikit-learn to forecast stock price trends.
- Achievements: Provided actionable insights with detailed evaluation metrics (accuracy, precision, recall) and improved sentiment prediction accuracy by 15%.

Real Estate Price Prediction Model Aug 2023 - Nov 2023

- Implemented an end-to-end ML pipeline, processing 10,000+ data points. Automated Web Scraping (95% extraction accuracy), Data Cleaning (20% fewer inconsistencies), Model Building, and Cloud Deployment, boosting prediction efficiency by 25% over baseline models.
- Key Contributions:
  1. Data Scraping: Collected real estate data from multiple sources using BeautifulSoup, ensuring high extraction accuracy.
  2. Data Preprocessing: Performed data cleaning and feature engineering to handle missing values, outliers, and categorical data, reducing inconsistencies by 20%.
  3. Model Development: Designed and trained multiple regression models, including Linear Regression, Decision Tree, Random Forest, and Polynomial Regression, to optimize price predictions.
- Achievements : Delivered a highly accurate predictive model with an R-squared score of 0.92, outperforming baseline models by 35% in predictive accuracy and effectively reducing error margins in predictions.

Certifications

NPTEL: Cloud Computing
University of Michigan: Applied Machine Learning
Kaggle: Machine Learning, Deep Learning