Hitesh Matharu

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EDUCATION

University of Petroleum and Energy Studies

Dehradun, India

B. Tech (Hons.) Computer Science (AI/ML)

Aug 2022 - Current — Current GPA: 7.6

EXPERIENCE

Data Analyst Intern | Cognifyz Technologies — Remote

Mar 2025 – Apr 2025

- Cleaned, transformed, and standardized large datasets containing 10,000+ records using Python and Excel, eliminating duplicates and formatting inconsistencies, which improved overall data quality and reliability by 25%.
- Performed comprehensive exploratory data analysis (EDA) to uncover hidden patterns, correlations, and trends within complex datasets, resulting in actionable insights that informed strategic decisions for over three business use cases.
- Designed and developed visually engaging dashboards and charts using tools like Matplotlib and Excel, presenting key findings to non-technical stakeholders in a clear, concise manner and facilitating better understanding of data-driven outcomes.

Projects

Next-Word Prediction Model | Python, PyTorch, TensorFlow

Nov 2024

- Constructed an LSTM-based machine learning model achieving 90% accuracy in predicting the next word.
- Handled over 2 million text entries from diverse sources, including Wikipedia and OpenAI GPT datasets, optimizing training time by 25%.
- Implemented text preprocessing techniques (tokenization, stemming, and lemmatization) to reduce dataset noise, improving model accuracy by 5%.
- Reduced model training time by 30% by leveraging GPU acceleration and optimizing batch sizes.

Depression Diagnosis Prediction Model | Python, XGBoost, RandomForest, Streamlit, scikit-learn, PandasJan 2025

- Engineered a predictive model using XGBoost, achieving precision: 0.88, recall: 0.85, and F1 score: 0.86 by analyzing 1,000+ mental health survey records.
- Deployed XGBoost as the primary classification model after rigorous testing against RandomForest, resulting in a
 15% decrease in misclassification rates and enhancing lead conversion efficiency across marketing campaigns.
- Enhanced preprocessing efficiency by automating data cleaning and feature engineering with SimpleImputer and LabelEncoder, reducing manual intervention by 30%.
- Developed a user-friendly Streamlit web application for real-time predictions, boosting accessibility and deployment speed.
- Utilized **pickle** for efficient model serialization, improving model loading and inference time by 25%.

PDF Summarizer from Scratch | Python, NLTK

Nov 2024

- Designed an extractive summarizer using TF-IDF, achieving 85% relevance accuracy in summarizing text inputs, reducing document size by an average of 60% while retaining key information.
- Dealt with over **10,000 text entries**, achieving a **25**% reduction in preprocessing time by implementing optimized **tokenization**, **stop word removal**, and **lemmatization** pipelines.
- Evaluated the summarizer on a dataset of **5,000+ documents**, achieving a **20%** improvement in processing efficiency compared to baseline models, and reducing the average runtime to under **2 seconds** per document.

SKILLS

Programming Languages: Python, Java, C, JavaScript, SQL

Tools/Platforms: Git/GitHub, VS Code, IntelliJ IDEA, Jupyter Notebook Libraries/Frameworks: Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow

ACADEMIC/EXTRA-CURRICULAR ACHIEVEMENTS

Cloud Security Alliance Student Chapter, UPES | Public Relations Head

Sept 2022 – Present

- Conducted a series of 15 public speaking competitions for students, fostering a competitive but supportive environment; encouraged over 75% of participants to pursue further training in public speaking and leadership development.

CERTIFICATIONS

Accenture North America Data Analytics and Visualization Job Simulation on Forage — Nov 2024

- Participated in a social media advisory simulation as a Data Analyst, delivering insights to a hypothetical client.
- Processed and analyzed 7 datasets, identifying key content trends that informed 3+ strategic recommendations for improved engagement and reach.