Ambigapathi V

Mettur Salem - Tamil Nadu

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https://ambigapathi-v.github.io/portfolio/

Professional Summary

A data professional with expertise in Data Science, Data Analysis, Business Analysis, and Data Engineering. Proficient in Python, SQL, machine learning algorithms, and big data technologies, with a strong background in building and optimizing data pipelines, performing statistical analysis, and delivering actionable insights. Experienced in analyzing complex datasets, identifying trends, and collaborating with cross-functional teams to inform strategic business decisions. Skilled in creating data-driven solutions to solve business problems, improve operational efficiency, and drive growth.

Skills

Programming Languages: *Python, SQL*
Machine Learning Tools: *TensorFlow, Keras, Scikit-Learn, NLTK, Spacy, Transformers*
Data Visualization: *Matplotlib, Seaborn, Plotly, Power-BI*
Development Tools: *GitHub, MLflow, Docker, Visual Studio Code, Jupyter Notebook, DVC, Dagshub*
Data Preprocessing: *Feature Engineering, SMOTE, EDA*
Soft Skills: *Team Collaboration, Analytical Thinking, Data Interpretation*

Experience

Omdena Kitwe News Aggregator | *Python, NLP, BERT — 98% Accuracy — GitHub* **Sep 2024 - Nov 2024**

- Engineered an AI-powered tool using BERT and NLP to detect fake news, achieving 98% accuracy.
- Scraped and processed over 100,000 articles using NLTK and TextBlob, and deployed a Streamlit-based real-time classifier.
- Optimized caching strategies, reducing false positives by 30%, enhancing news credibility in Kitwe, Zambia.

Projects

Harmful & Offensive Word Prediction | *Python, NLP — 90% Accuracy — GitHub* **January 2024**

- Developed a Python classifier to predict harmful and offensive words, achieving 90% accuracy.
- Leveraged Spacy and NLTK for feature extraction, reducing processing time by 40% while enhancing accuracy.
- Deployed the solution on a web platform, cutting false positives by 30% and improving content moderation efficiency.

Credit Risk Model Development | *Lauki Finance, Streamlit — 92% Accuracy — GitHub* **March 2024**

- Designed a credit risk assessment tool using logistic regression and decision trees, enhancing prediction accuracy and model explainability.
- Processed 50,000+ loan data entries, employing SMOTE to reduce data imbalance and mitigate bias.
- Created a Streamlit-based interface for real-time loan risk predictions, delivering actionable insights for financial analysts.

Customer Churn Prediction | *Logistic Regression — 85% Accuracy — GitHub* **June 2024**

- Developed a predictive model to estimate customer churn with 85% accuracy, using customer behavior and historical data.
- Performed feature engineering and handled missing data, applying machine learning techniques to forecast churn.
- Implemented a real-time prediction tool in Streamlit, optimizing customer retention strategies.

Text Summarizer Using LLM | *LangChain, Streamlit — 95% Accuracy — GitHub* **September 2023**

- Engineered a text summarizer with LLM, achieving 95% accuracy in condensing long documents.
- Utilized LangChain and OpenAI GPT for abstractive summarization of diverse document types.
- Integrated a user-friendly Streamlit interface to facilitate easy summarization of textual content.

Education

Annamalai University **May 2018 – May 2022**
Bachelor in Agriculture *Chidambaram, Tamil Nadu*

Certifications

Complete Data Science, Machine Learning, DL, NLP Bootcamp - Krish Naik (Udemy, 2024)

Master Machine Learning for Data Science - CodeBasics (January 2024)

Complete MLOps Bootcamp - (Udemy, 2024)