GOMATHI A

Data Science
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OBJECTIVE

Passionate Data Scientist, dedicated to leveraging analytical and Machine Learning expertise to address practical challenges. Skilled in Machine Learning fundamentals, Python, SQL, and diverse data manipulation and analysis techniques.
Proficient in applying data science principles to tackle real-world problems

TECHNICAL   SKILLS

- Programing language   : **Python**
- Data analysis libraries   : **Pandas**, **NumPy**
- Visualization libraries   : **Matplotlib, Plotly**
- Visualization Tool   : **Power BI**
- Spreadsheet Tool   : **Excel**
- Database Management   : **MySQL, MongoDB**
- Machine learning library   : **Scikit-learn**
- IDE   : **Jupiter Notebook, Google Colab**

CERTIFICATIONS

- Master Data Science program
- GUVI GeekNetworks, IITM Research Park.

EDUCATION

- BTech IT, with 77% at Nandha Engineering College(2012-2016), Perundurai.
- HSC, with 78 % at Saru Metriculation- (2011 – 2012), Sathyamangalam.
- SSLC, with 84% at St.Francis Xavier's Higher Secondary School(2009-2010), Peria Kodivery

EXTRACURRICULAR   ACTIVITY

- Social Club Coordinator of IT Department. ◆ Patriated and got certificate for Kabbadi.

WORK EXPERIENCE

- Worked in St.Francis Xavier Higher Secondary School as a teacher since 2018 to 2020

MACHINE LEARNING PROJECTS

Heart Disease Prediction
- The objective of predicting heart disease is to identify individuals who are at risk of developing cardiovascular problems in the future. Early detection and prediction of heart disease can lead to timely intervention and preventive measures, reducing the likelihood of serious health complications.

Diabetes Risk Prediction
- Diabetes Risk Prediction: Developed a machine learning model to predict diabetes risk using clinical and lifestyle data, aiding early intervention and personalized healthcare.
- Personalized Diabetes Management: Created an AI-based tool for diabetes patients, providing personalized dietary and medication recommendations based on real-time health data, leading to improved self-management and overall health outcomes.

Android-Malware-Prediction
- Android Malware Prediction: Employed machine learning techniques to develop a model for the early detection of Android malware, enhancing mobile device security. This project involved feature engineering and classification algorithms to identify potential threats and protect users from malicious apps.

Customer Conversion Prediction
- Developed a machine learning project aimed at forecasting customer conversion rates in marketing campaigns. The primary goal was to identify and target high-potential leads to increase overall conversion rates and optimize marketing spending.
- Utilized historical customer data, including demographics, behavioral patterns, and engagement metrics. Employed a range of advanced machine learning algorithms, such as logistic regression, support vector machines, and gradient boosting, to build predictive models.

STRUCTURED QUERY LANGUAGE (SQL) PROJECTS

HR Employee distribution analysis
- Designed and implemented an HR employee distribution project using SQL and Power BI tools, optimizing workforce allocation and resource management for enhanced company efficiency.

DATA ANALYST PROJECTS

YouTube data harvesting and warehousing
- Extract YouTube channel data using the channel ID and store it in MongoDB.
- Migrate the data from MongoDB to MySQL by using Pandas for processing. Analyze the data using SQL queries to answer customer questions and Data visualization.

NATURAL LANGUAGE PROCESSING (NLP) PROJECTS

IMDB movie review sentiment analysis
- Creating an NLP-based project aimed at developing an IMDb movie review sentiment analysis model. The primary goal is to predict audience sentiments effectively and empower data-driven decision-making within the film industry

Extracting Business Card Data by using easyOCR
- Leverage Python's easyOCR along with pandas, numpy, and SQL queries toextract and store crucial data from business cards into a MySQL Database, whilestreamlining the process with Streamlit.