

MUTHULURI SAIKIRAN

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Education

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| B Tech., - CSE. | Kalasalingam academy of research and education | 8.04 (CGPA) | 2020 – 2024 |
| Intermediate. – H.S.C. | Narayana jr college | 8.27 (CGPA) | 2018 – 2020 |
| Primary school – S.S.C. | J.V.M.R.D.T School | 9.20 (CGPA) | 2017 – 2018 |

Experience

Data Science and Analytics Internship at risposta software India private limited

During my internship, I worked on data science projects in supply chain management, utilizing Python, SQL, and machine learning tools like Scikit-learn. I analyzed large datasets to optimize inventory levels, improve demand forecasting, and streamline logistics operations. These efforts helped in enhancing decision-making processes and reducing operational costs. Learned and practiced several basic ML algorithms and Python libraries like NumPy, Pandas, SciPy, Matplotlib, Seaborn etc., and also get exposure to the applied Statistics and Power BI.

Aug 2024

Projects

Demand forecasting and product planning

Created a cutting-edge hybrid forecasting and recommendation system by seamlessly integrating ARIMA, SARIMA, and Collaborative Filtering techniques. Utilized ARIMA/SARIMA to capture temporal dynamics and seasonality, while leveraging Collaborative Filtering to deliver personalized item recommendations. Implemented this innovative hybrid model to significantly enhance accuracy in time series data forecasting and provide tailored content recommendations for individual users.

Tools and Technologies : Python , AI , Natural Language Processing ,VS code , Java script , HTML , CSS , SQL , Matlab ,Colab , ARIMA/SARIMA .

Content Recommendation

Implemented machine learning algorithms for content recommendation, optimizing user engagement through collaborative filtering and NLP. Enhanced personalized experiences and refined recommendation models based on data driven insights.Applied strong analytical skills to interpret user behavior, driving efficient and user-centric content delivery.

Tools and Technologies : Python , AI ,VS code , ,Colab , ML , NLP , DL .

Wine quality Analysis

Conducted wine quality analysis using Decision Tree and Random Forest models, incorporating pH, density, and type. After preprocessing, both models were tested, with the Random Forest's ensemble approach exhibiting superior accuracy and providing insights into influential features, enhancing our understanding of wine quality prediction.

Tools and Technologies : Python , AI , ML, Natural Language Processing ,VS code , SQL ,Colab , Decision Tree and Random Forest models.

Analysis of Amazon sales Dataset

This project aims to analyze the Amazon Sales dataset to derive actionable insights into customer behavior, product trends, and market conditions. Through exploratory data analysis, businesses can leverage these findings to enhance product strategies, marketing, and operations. The dataset serves as a rich source for understanding market dynamics and consumer preferences .

Tools and Technologies : Python , AI , ML Algorithms , Natural Language Processing ,Colab .

Certifications

Crash course on python an online course authorized by Google and offered through Coursera. [Coursera](#)

The Structured Query Language (SQL) an online course authorized by University of Colorado Boulder and offered through Coursera. [Coursera](#)

Microsoft Azure for Data Engineering is an online course authorized by Microsoft and offered through Coursera. [Coursera](#)

Received a certificate for poster presentation on IBMICE day.

Technical Skills

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| Programming | Python, JavaScript |
| Web Technologies | HTML, CSS |
| Data Science & Analytics | NumPy, Pandas, Matplotlib, Seaborn, Power BI, Tableau, Data Visualization ,Excel, Statistics |
| Artificial Intelligence | Scikit-learn, Tensor-flow, NLP, DL ,LLM |
| Data Base and Core Concepts | SQL, DSA-Basics |