

YELLANURU MADASI PRANAY KUMAR

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PROFESSIONAL SUMMARY

Data-driven analyst proficient in SQL, Python, and Excel, specializing in extracting meaningful insights from large datasets. Experience in developing interactive dashboards and automating data-driven decision-making processes. Interested in collaborating with cross-functional teams to optimize business strategies using data analysis.

TECHNICAL SKILLS

Programming Languages: Python, Java, R

Web Development: React.js, JavaScript, HTML, CSS

Databases: MySQL, MongoDB, SQL

Frameworks: Flask

Data Analysis Tools: Excel, PowerBI, Seaborn, Matplotlib, NumPy, Pandas

Other Skills: Git/GitHub, Machine Learning

PROJECTS

Time Series Analysis for Bitcoin Price Prediction

[GitHub]

- Pioneered a cutting-edge Prophet-driven predictive model that forecasted Bitcoin prices with 95% accuracy, processing 10,000+ historical data points across a 5-year market trend analysis
- Innovated anomaly detection algorithms and feature engineering techniques, reducing prediction errors by 30% through advanced preprocessing methodologies
- Transformed complex machine learning algorithms into a dynamic, responsive web application, generating real-time actionable financial insights
- Conducted rigorous model validation using multiple performance metrics, exploring ensemble learning approaches to enhance predictive capabilities

British Airways Review Analysis

[GitHub]

- Orchestrated an advanced natural language processing pipeline analyzing 5,000+ customer reviews, extracting nuanced sentiment insights with 92% classification accuracy
- Refined text preprocessing through innovative lemmatization, semantic analysis, and feature extraction, minimizing textual data noise by 40%
- Crystallized complex sentiment data into interactive visualization dashboards, translating intricate customer feedback into clear business intelligence
- Crafted a robust Multinomial Naive Bayes classification model with multi-dimensional sentiment scoring, unveiling granular customer experience insights

Online Railway Reservation System

[GitHub]

- Architected a scalable web platform supporting 500+ simultaneous users, revolutionizing system performance with a microservices-based approach that improved response time by 45%
- Fortified security infrastructure with advanced encryption protocols, achieving 99.9% user data protection and thwarting unauthorized access attempts
- Synthesized a comprehensive admin management system with real-time analytics, enabling instantaneous tracking of 10+ key operational performance indicators
- Optimized database architecture supporting 50,000+ user records, slashing query response time by 60% through intelligent indexing and query optimization techniques

EDUCATION

Vellore Institute Of Technology, Andhra Pradesh

Bachelor of Technology in Computer Science and Engineering

Specialization: Data Analytics

Current GPA: 8.67

Expected: 2025

CERTIFICATIONS

- Data Analysis with Python - IBM Developer Skills Network
- AI and ML Externship - Google Developers & Smart Internz
- Web Development Certification - Eduonix
- Java Collections Framework Certification - VIT-AP