Kundana Mandapaka

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EDUCATION

University of South Florida **Aug 2022 – May 2024**
Masters in computer science

NRI Institute of Technology **Jun 2018 – Apr 2022**
Bachelors in computer science

EXPERIENCE

International MUN: *Business Data Analyst Intern* **Jun 2021 – Jul 2022**

- Drove strategic partnerships utilizing JIRA, unlocking new market opportunities and expanding reach, achieving a 20% growth in collaboration-based revenue streams.
- Developed project documentation, including project plans, business requirements documents, gap analysis, and process flow diagrams utilizing Microsoft Word, Excel, and Visio for quality assurance.
- Created and maintained PostgreSQL databases and data models, reducing response times by 15%
- Successfully used data pipelines using AWS S3 and Redshift to integrate data from various sources, increasing data usability by 20%
- Enhanced operational efficiency by 10% with the use of Power BI visualizations, enabling a clearer understanding of operational issues and key performance metrics.

Art For Humanity Foundation: *Data Analyst Intern* **Feb 2020 – May 2021**

- Performed exploratory data analysis on large datasets using Excel, identifying trends and anomalies.
- Collaborated with sales team to optimize pricing strategies resulting in a 20% increase in revenue.
- Developed and maintained data documentation and data dictionaries, ensuring data consistency and transparency.
- Assisted in the development of predictive models to forecast product demand, reducing inventory costs by 15%.
- Conducted competitor analysis using web scraping techniques, providing insights into market trends and pricing strategies.

CERTIFICATIONS

- Atlassian Agile Project Management Professional
- Google Certified Data Analyst
- Tableau Certified Desktop Specialist
- AWS Certified Data Engineer

PROJECTS

Layoff Analysis Post COVID: Companies, Profits, and Industry Trends **Feb 2024 – Mar 2024**

- Developed an interactive dashboard to analyze global layoffs post-COVID, integrating data collected through web scraping and cleaning using Python. Tracked layoff trends since the pandemic's onset, providing nuanced insights into company-specific impacts and industry shifts. Predicted a 42% reduction in job losses, from 260,000 in 2023 to 151,681 in 2024.
- Conducted a study leveraging predictive modeling to forecast global and country-specific layoff trends for 2024. Identified top companies like Amazon, Meta, and Google, while quantifying post-layoff savings, including significant figures for Netflix and Uber.

Twitter Sentiment Analysis **Jun 2024**

- Developed and deployed a sentiment analysis model on a dataset of 1.6 million tweets using Python and Natural Language Processing (NLP) techniques. Achieved a test accuracy of 77.67% with Logistic Regression and 77.49% with Random Forest Classifier, utilizing TF-IDF vectorization for efficient text preprocessing and feature extraction.
- Ensured model scalability and reusability by saving trained models with pickle and conducted successful deployment tests for accurate real-time tweet classification. Analyzed feature importance with Random Forest, achieving a training accuracy of 99.58%, while optimizing for performance and computational efficiency.

PUBLICATIONS

- Knowledge Retrieval for Robotic Cooking (Artificial Intelligence, Graphs): https://arxiv.org/abs/2211.04524v1
- E-Voting for Universities Using Face Recognition (Web Development, Face Recognition): IJSEAT, VOL- 10, Issue No. 1, Page No. 149-152, February 2022

SKILLS

Analytics and Visualization: Tableau, Power BI, MS Excel, MySQL, PostgreSQL, SQL Server, Mongo DB, Big Query, AWS, Qlikview, Informatica, Alteryx
Programming languages: Python (NumPy, Pandas, Scikit-learn, Seaborn, Matplotlib, TensorFlow, BeautifulSoup), R (Tidyverse, Skimr, Janitor, ggplot2), Java, C, HTML, CSS, JavaScript
Data Governance & Project Management Tools: Collibra, JIRA, Microsoft Project
ML Algorithms: Clustering, Supervised Learning, Unsupervised Learning, A/B Testing