

KUNDANA MANDAPAKA

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EDUCATION

University of South Florida

Aug 2022 – May 2024

Masters in Computer Science

Relevant Coursework: *Operating Systems, Data Structures & Algorithms, DBMS, AI/ML, Cloud Computing (AWS)*

RELEVANT SKILLS

Programming Languages & Web Technologies: Python, R, PySpark, C, HTML, JAVASCRIPT, CSS, Bootstrap

Cloud Technologies: AWS (EC2, S3, RDS, Redshift, DynamoDB, Athena), GCP (BigQuery, Cloud Storage, Cloud SQL)

Database & Visualization: MySQL, PostgreSQL, MongoDB, Oracle DB, SQL Server, Power BI, Tableau, Qlik Sense

Data Governance, ETL & Project Management Tools: Collibra, Informatica, SSIS, SSRS, SSAS, JIRA, Microsoft Project

Statistical Analysis Skills: A/B Testing, Time Series Analysis, Markov

Machine Learning: Linear Regression, Logistic Regression, Decision Tree, Random Forest, SVM, Clustering, KNN

Methodologies Development Methodologies: Agile, Waterfall, Scrum, Kanban, XP

EXPERIENCE

International MUN

Mar 2021 – Jul 2022

Business Data Analyst Intern

- **Gathered and elicited requirements** from business users through stakeholder meetings, interviews, and discussions, and developed **UML diagrams**, including use case diagrams, activity diagrams, and data flow diagrams using MS Visio.
- **Improved website traffic by 70%** and optimized data reporting by 20% through proactive **Root Cause Analysis**, driving user experience improvements and stakeholder satisfaction in a fast-paced Agile environment.
- Utilized SSIS and SSRS to address business problems and generate organizational reports, achieving a **20% reduction in report generation time**, and employed MS Excel and MS Access for data analysis and reporting.
- Collaborated with the QA team to design test plans and test cases for User Acceptance Testing (UAT), ensuring a **95% defect-free release**, and created documentation for training and Help Desk teams.
- Worked extensively with SQL for data manipulation and developed ad hoc reports per managerial requirements, participating in the product design process with Developers and User Representatives, including specifications and end-user reviews.
- Created Tableau dashboards/reports for data visualization, **enhancing data accessibility and decision-making by 25%**, and used MS Excel, MS Project, Jira, R, and Python for project management and data analysis tasks.

Art for Humanity Foundation

Feb 2020 – Mar 2021

Data Analyst Intern

- Developed and maintained data documentation and dictionaries, ensuring data consistency and transparency; conducted competitor analysis using web scraping techniques to provide insights into market trends and pricing strategies.
- Migrated the entire company workload to AWS cloud, leveraging EC2 and S3 for efficient scaling, **increasing efficiency by 40%**; implemented Amazon Aurora Database and DynamoDB to securely store business insights and operations data, **increasing storage capability by 50%** and **reducing latency time by 250%**
- Created detailed data security protocols for data access and protection, providing enhanced security for company data; collaborated with the sales team to optimize pricing strategies, **resulting in a 20% increase in revenue**.
- Identified procedural areas of improvement through customer data analysis using SQL, **improving profitability by 8%**; assisted in developing predictive models to forecast product demand, **reducing inventory costs by 15%**
- Built operational reporting in Tableau to identify areas for improvement, resulting in \$150K in annual incremental revenue.

CERTIFICATIONS

AWS Certified Data Engineer – [Link](#)

Google Certified Data Analyst – [Link](#)

Tableau Certified Desktop Specialist – [Link](#)

Microsoft Power BI Certified Data Analyst – Pursuing

PROJECTS

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.