Madhushalini Kotti

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EDUCATION

Florida Atlantic University, Boca Raton, FL   May 2025
Master of Science in Computer Science   GPA: 3.81/ 4.00
Anurag Group of Institutions, Hyderabad, India   April 2023
Bachelor of Technology in Information Technology   GPA: 9.2/10.0

SKILLS

Languages: Python, R, C/C++, Java, JavaScript
Data Science Tools: TensorFlow, Scikit-learn, PyTorch, Matplotlib, Seaborn, Tableau
Web Development: HTML, CSS, Bootstrap, React, jQuery, Node.js, Express.js, API, REST API, AXIOS, Ajax
Databases: SQL, PostgreSQL, Relational Databases, DBMS
Version Control: Git, GitHub
API Testing: Postman

WORK EXPERIENCE

Florida Atlantic University | *Graduate Teaching Assistant*   January 2024 - Present
- Presented 4 lectures on core software engineering topics, including Agile methodologies, Software Development Life Cycle (SDLC), Design Patterns, and Version Control (Git).
- Contributed to the creation of 5+ course content pieces, including assignments and projects, to boost student engagement. Evaluated 50+ assignments and exams. Collaborated with the professor to resolve 10+ student concerns.

Amazon Development Centre | *Software Development Engineer Intern*   January 2023 –June 2023
- Revamped the Booking Recommendation Project by redesigning API response formats, streamlining backend processes, and upgrading the UI, resulting in a more seamless and user-friendly booking experience.
- Partnered with cross-functional teams to implement changes using Java, JavaScript, React, CSS, and Bootstrap, driving a more efficient and responsive application.
- Optimized system performance and usability, refining booking recommendations and enhancing the overall user experience.

PROJECTS

Teaching Assistant Management System | *Express JS, PostgreSQL*
- Engineered a customized Teaching Assistant Management System from the ground up, integrating real-time messaging and scheduling tools; streamlined communication processes, resulting in a 30% reduction in response time between faculty and TAs.
- Built a robust backend architecture with Express.js and PostgreSQL, streamlining data management for over 1,000 user profiles and automating 80% of administrative tasks.

Sentiment Analysis | *NLTK, Text Blob*
- Developed a robust sentiment analysis program using NLTK and Text Blob, achieving precise classification of 1,200 text samples into positive, negative, or neutral categories to enhance data-driven insights for future projects.
- Analysed 1,200 text samples and created **visual reports** using Matplotlib and Seaborn to display sentiment distribution.

Customer Churn Prediction | *Scikit-learn, TensorFlow*
- Built a predictive model to classify customer churn using the Telecom Churn Dataset (5,000+ records).
- Engineered 5+ features like tenure, usage patterns, and contract type to improve model accuracy. Visualized churn trends and feature importance with Matplotlib and Seaborn.
- Trained Random Forest and XGBoost models, achieving an F1-score of 0.85.

CERTIFICATIONS

- Hacker Rank Certificate for Python (Basic) and SQL (Basic) for successfully completing the Assignment.
- Certificate of DBMS course from ORACLE.