Nanditha Addapa

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EDUCATION

Wichita State University   Wichita, USA
Master of Science, Business Analytics   **August 2023-May 2025 | GPA-3.95/4**

Jawaharlal Nehru Technological University   Hyderabad, India
Bachelor of Technology, Electronics and Instrumentation   **August 2018-July 2022 | GPA-8.81/10**

SKILLS

- **Programming Languages and Databases:** C, Java, Python, MySQL
- **Machine Learning:** Linear Regression, Logistic Regression, Decision Trees, Random Forest, SVM, KNN, Naive Bayes, GBM (XGBoost), Neural Networks, K-Means Clustering
- **Web Technologies:** HTML5, CSS3, ReactJS
- **Cloud Platforms:** AWS
- **Software and Tools:** Weka, GIT, MS Excel, SPSS, Tableau, Power BI

PROFESSIONAL EXPERIENCE

HCL Technologies, *Bengaluru*   **September 2022 - June 2023**
Graduate Engineer Trainee

- Developed and implemented a web-based application using AWS Lambda and Amazon S3 to streamline the client onboarding process, reducing time to market by 20%. Leveraged AWS EC2 instances for scalable computing resources.
- Created a web-based customer support portal, integrating Amazon RDS for scalable database management, which increased customer satisfaction by 15%. Used AWS CloudFront for content delivery to enhance user experience.
- Led a team of developers in the creation of "Do Connect," a popular Q&A forum for technical questions, utilizing AWS Elastic Beanstalk for deployment and Amazon DynamoDB for managing dynamic data storage.
- Managed the development and implementation of a proof-of-concept (POC) using AWS Glue to read and transform Excel sheet data from merged components and store it in Amazon RDS (MySQL databases).

ACADCEMIC PROJECTS

Parameter Estimation of Non-linear interacting MIMO Systems using MATLAB.   **April 2022**

- Developed a MATLAB algorithm to estimate the mathematical model of a conical tank.
- The algorithm was validated using simulated and experimental data.
- The estimated model accurately predicted the system dynamics under various operating conditions.

Prediction of Concrete Compressive Strength   **November 2023**

- Conducted an in-depth analysis to assess the statistical significance of each coefficient in the regression model, aiming to understand the impact of individual components on compressive strength.
- Utilized provided error metrics to evaluate the goodness of fit of the model, ensuring a comprehensive assessment of its accuracy and reliability.
- Implemented model refinement strategies, including consideration of variable interactions and identification of nonlinearity, to enhance the predictive capabilities and overall performance.

Diabetes Risk Prediction   **April 2024**

- Developed a predictive model using XGBoost to classify individuals into four diabetes risk categories from heart disease data, achieving 70% accuracy.
- Conducted comprehensive data preprocessing, including outlier removal, feature engineering, and handling missing data to optimize model inputs.
- Utilized advanced machine learning techniques such as SMOTE and ADASYN to effectively address significant class imbalances, enhancing the model's capability to predict minority classes.
- Evaluated model performance using metrics such as Accuracy, Precision, Recall, F1-Score, and ROC-AUC; utilized visualization techniques including ROC and Precision-Recall curves for model tuning.
- Iteratively refined the model through hyperparameter tuning and advanced sampling strategies, leading to improved classification accuracy and deeper insights into model behaviour across different risk categories.

CERTIFICATIONS and ACHIEVEMENTS

- Introduction to Business Analytics Using Spreadsheets.
- Business Analysis & Process Management.
- Received participation certificate in paper presentation on "Robotics" in dept fest Instroglitz.