Huda Abdul Rawoof

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EDUCATION

The University of Texas at Dallas   May 2023
Master of Science, Business Analytics   **GPA 3.7**
Dean's Excellence Scholarship

Jawaharlal Nehru Technological University, Hyderabad   November 2020
Bachelor of Technology, Information Technology   **GPA 3.6**

CERTIFICATIONS AND TECHNICAL SKILLS

Education: Data Science, Big Data, SQL for Data Analytics, Machine Learning, Spreadsheet Modeling
Programming: C, C++, Java, Python, R, HTML, CSS, JavaScript, PHP, SAS, XML, VBA, UNIX, Linux
Testing Tools: ALM, Selenium, UFT, Cucumber, JMeter
Software: MS Excel, Oracle, Tableau, Power BI, Jupyter, JIRA, Cloudera, Hadoop, Apache Spark, Hive, Impala, Stata, AWS, GCP, MS Azure
Databases: MySQL, PL/SQL, MongoDB, Microsoft SQL Server
Techniques: Clustering, Classification, Predictive and Prescriptive Analytics, ML algorithms
Certifications: Microsoft Azure Fundamentals – AZ900, Python for Data Analysis and Visualization by Udemy

PROFESSIONAL EXPERIENCE

Data Engineer Intern

Workstam, Texas   January 2023 – May 2023
- Automated ETL processes for IoT sensor data on Azure Cloud, implementing efficient pipelines that significantly reduced processing time by 35%.
- Optimized data processing efficiency by 25% through efficient orchestration using Azure Data Factory for daily batch processing of customer data.
- Collaborated with cross-functional teams, integrating predictive maintenance machine learning models, improving equipment uptime by 20%.
- Managed Azure resources with auto-scaling, resulting in a 15% reduction in infrastructure costs during peak traffic.
- Enhanced data traceability by 40% by developing data lineage documentation, ensuring compliance with regulations in Azure-based solutions.

Application Development Associate

Accenture Solutions Pvt. Ltd., India   August 2020 – August 2021
- Developed 15 comprehensive testing documentation, including test plans, test data sets, test scripts, summary reports, and bug reports, ensuring a 98% data quality and integrity improvement.
- Leveraged automation tools such as Selenium WebDriver, Java, TestNG, Cucumber, and Maven to create and execute 50 automated data validation test scripts, resulting in a 95% increase in data accuracy and reliability.
- Conducted 15 load and stress tests using JMeter to assess system performance, leading to a 20% optimization in data processing efficiency for enhanced data engineering and analysis workflows.
- Demonstrated proficiency in both manual and automated testing methodologies, achieving a 92% score in assessments, translating into meticulous data validation and analysis skills crucial for data engineering.

Data Analyst Intern

Brainovision Solutions Pvt. Ltd., India   January 2019 – August 2019
- Collaborated with the data engineering team in data gathering, cleaning, and organization tasks, resulting in a 15% improvement in data accuracy and consistency.
- Analyzed basic data analysis and visualization tasks using tools like Excel Sheets, contributing to a 10% increase in identifying trends and patterns and assisted in the creation of 5 simple data dashboards to visualize key performance indicators (KPIs) for internal reporting purposes.
- Contributed to documentation efforts by updating 8 data workflow diagrams and 12 standard operating procedures, enhancing data management and process clarity.

ACADEMIC PROJECTS

Preparation for Breast Cancer by 2030   August 2022 – December 2022
- Gathered and processed breast cancer rates from the CDC Places dataset for 2018 population at census tract in Texas and utilized small area estimation (SAE) to forecast cancer rates at county and census tract levels in 2030.
- Developed Tableau dashboards to visualize cancer screening levels (under, over and optimally diagnosed) and identify the appropriate population for targeted cancer control programs based on age, risk factors, and race.
- Forecasted the required budget for breast cancer screening in 2030 to address the under-diagnosed population.

Prediction of Credit Card Approval   August 2022 – December 2022
- Collected and refined data from Kaggle, transforming target variable into binary classification: good and bad clients.
- Performed exploratory data analysis to identify significant patterns in the data.
- Built multiple data models – Logistic regression, Random Forest, KNN, Decision tree and XGBoost.
- Recommended XGBoost as the best performing model based on an accuracy rate of 83.95% and an f1 score of 0.85.

Integrated Vehicle Monitoring System   January 2020 – May 2020
- Improvised an IoT based vehicle tracking system by integrating it with toll tax collection system along with accident and alcohol detection systems.
- Assembled, analyzed, and visualized data for final project report and presentation.
- Composed literature surveys and published an article based on the project in IJRASET Vol 8 Issue V ISSN: 2321-9653.

ADDITIONAL INFORMATION

Eligibility: VISA, Eligible to work in the US for internships and full time for up to 36 months.