Sri Charan Bodduna

sricharanbodduna@my.unt.edu | (945) 446-6133 | LinkedIn | GitHub | Portfolio

EDUCATION

University of North Texas   01/2023-12/2024(expected)
*M.S. in **Advanced Data Analytics***   Denton, Texas

EXPERIENCE

Diversifying Human-Centered Data Science through the Research & Design of Ethical Games *GitHub Link*
Programmer – On-campus Part-time, University of North Texas   09/2023-01/2024

- Developed an ethical data science model assessment game in collaboration with the University of North Texas and the University of Washington, engaging over 50 businesses to evaluate AI model performance, resulting in a 20% improvement in understanding the ethical implications of AI deployments.
- Implemented test models and visualizations using Python, Construct3 Engine, and JavaScript (d3js), leading to a 30% increase in model performance accuracy assessment and facilitating the creation of an interactive game for educational purposes.

Vodafone Intelligent Solutions (_VOIS)   04/2021-12/2022
Senior Executive

- Served as an Alteryx admin & developer, supervising 5 servers and 600+ workflows under Vodafone Group, assisting the company in adapting new ETL pipelines. Administered users, workflows, collections, and DBMS data connections on servers.
- Engineered and delivered TensorFlow deep learning models and time-series analysis for profits forecasting, resulting in a 25% increase in forecasting accuracy and projected 12% increase in profit growth margin.
- Implemented Python-based real time monitoring flows for inhouse workflows, incorporating triggers, health checks, and logs which aims in 50% reduction in issue resolution time and saved 120 hours monthly.
- Directed stakeholders and technical team for requirement analysis and refinement that helped in improving communication and leadership and management skills contributing to 15% increase project efficiency and collaboration.

Infosys Ltd.   11/2018–04/2021
Systems Engineer

- Designed a Data Quality application using Alteryx and Python (spaCy) for HSBC, that assesses completeness, consistency, validity, and conformity, resulting in 92% time savings in data management and pipeline processing by automating the app.
- Optimized the application measuring data quality for 10 million rows and 500+ columns using Alteryx and its server capabilities, by reducing execution time by 96%, leading to significant savings in business hours and enhanced operational efficiency.
- Exposed API functionality for the Data Quality application, allowing over 10 teams to measure and assess data quality in their source data using Alteryx, Java, Python, and Spring Boot.
- Attained a 35% increase in efficiency for data quality assessments across multiple teams, promoting standardized data quality practices and reducing data inconsistencies by 20%.

PROJECTS *complete list*

Handwritten digits classification using TensorFlow. *GitHub Link*
Developed a deep learning AI model to classify handwritten numeric digits on the MNIST dataset using TensorFlow, which improved accuracy to 98.8% with a two-layered Convolution Neural Network (CNN).

A Predictive Journey into Oman Car Prices *GitHub Link*
Built an end-to-end machine learning and statistical modeling using **R language** for predicting car prices, which effectively predicted car prices with an accuracy of 68% and a least mean square error of 39804156.49.

Dallas Crime Analysis Reporting using Tableau. *GitHub Link*
Prepared eye-catching data visualization on the city of Dallas police arrests. Found that the yearly crime rate in the city dropped by 20% in 2023. Arrests are 102% higher at night compared to afternoons on weekends.

Heart Attack Prediction System using classification algorithm. *GitHub Link*
Defined predictive ML models that predict whether a patient is prone to a heart attack, revamping Accuracy score to 81%, 92% recall rate, and 82% precision for the decision tree model.

SKILLS

Programming Skills: Linux, Python, JavaScript, Java/J2EE, C/C++, R, Spark, Hadoop, Scala, Data Structures and Algorithm, HTML, CSS
Big Data and AI Skills: Mathematics, Excel, Artificial Intelligence, Generative AI, Alteryx, Statistical Modeling and Hypothesis Testing & Inference, A/B Testing, Data Cleaning & Feature Engineering, Predictive Modeling, Regression, Tableau, ETL, Data Warehouse, Data Lake, Machine Learning, ML Deployment, D3js, Artificial Neural Network (ANN), Convolutional Neural Networks (CNN), Recurrent Neural Networks (RNN), Long Short Term Memory RNN, Natural Language Processing, Transformers, BERT, Large Language Models like Google Gemini 1.5, GPT 3, LangChain, lLama-3, Gemma, Mistral, libraries: Matplotlib, SciPy, Scikit-Learn, Seaborn, TensorFlow, PyTorch, HuggingFace etc.
Frameworks: Flask, Django, Spring Boot, Microservices, Angular, Streamlit, Git, GitLab, RESTful API, SharePoint
Cloud Skills: Google Cloud Platform (GCP), Microsoft Azure, Amazon Web Services (AWS), Power Apps, Power Automate
Databases: Database Design, SQL, PostgreSQL, NoSQL, MongoDB, BigQuery, CloudSQL, CosmosDB, Azure SQL, Redshift
Books: Data Mining for Business Analytics using Python, Business Statistics: Communicating with Numbers**,** 4th Edition

AWARDS/CERTIFICATIONS

- Vodafone Star Award for exceptional work in the team at _VOIS, 07/2021.
- Alteryx Designer Core Developer Certified, 08/2022-08/2024.