

SRI CHARAN BODDUNA

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PROFESSIONAL SUMMARY

Highly skilled data scientist with 4 years of experience. Proven expertise in leveraging to drive strategic decision-making and business growth. Adept in various programming languages, big data technologies, and AI/ML frameworks. Recognized for exceptional leadership, innovative problem-solving, and strong communication skills.

SKILLS

Programming Skills: Linux, Python, JavaScript, Go, Java/J2EE, C/C++, R, Spark, Caspian, Hadoop, Scala, Hive, Data Structures & Algorithms

Big Data and AI Skills: Mathematics, MATLAB, Excel, Artificial Intelligence, Generative AI, Alteryx, Statistical Modeling and Hypothesis Testing & Inference, A/B Testing, Data Cleaning & Feature Engineering, Predictive Modeling, Data Modeling, Regression, Tableau, PowerBI, ETL, Data Warehouse, Data Lake, Kafka, Machine Learning, ML Deployment, JAX, SAS, Artificial Neural Network (ANN), Convolutional Neural Networks (CNN), Recurrent Neural Networks (RNN), Computer Vision, Stable Diffusion, Libraries: Pandas, SciPy, Scikit-Learn, Seaborn, TensorFlow, PyTorch, HuggingFace, Keras, etc.

Frameworks: Flask, Django, CI/CD, Redis, Streamlit, Git, RESTful API, Grafana, OpenSearch, Docker, Kubernetes, CUDA, GPU, Agile, Kanban

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, Vector DB, CosmosDB, Azure SQL, Redshift

Books: *Business Statistics: Communicating with Numbers, 4th Edition*, *Data Mining for Business Analytics using Python*

Core Competencies: Agile, Insurance, Audit, Sales and Profit Growth, Enterprise Risk, Documentation, Research and Design, Innovative, Critical Thinking, Leadership, Problem Solving, Quick Learner and Adaptability, Communication, Productivity

EXPERIENCE

Programmer | University of North Texas | Diversifying Human-Centered Data Science (Research Project) 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**, engaged 50+ businesses to evaluate **AI model performance**, with 16% improvement in understanding the ethical implications of AI deployments.
- Implemented test ML models and **visualizations** using Python, **Construct3** Engine, and **JavaScript** (d3js), leading to a 14% increase in **model performance** accuracy assessment and facilitating the creation of an interactive game for educational purposes.

Data Scientist | Vodafone Intelligent Solutions (_VOIS) 04/2021-12/2022

- 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** and **SQL** 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.

ETL Developer | Infosys Ltd. 11/2018-04/2021

- Designed a **ETL** 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.
- Written advanced **SQL** queries on Big Query & **Cloud SQL** to measure data quality, optimized queries to improve fast retrieval by **28%**.
- 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.

PROJECTS

Handwritten digits classification using TensorFlow: 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: Built an end-to-end machine learning and statistical modeling using **R language** for predicting car prices leveraging **k-NN**, CART, Random Forest, which effectively predicted prices with an 68% accuracy & 6309 **root mean square error**.

Dallas Crime Analysis Reporting using Tableau: Prepared eye-catching **data visualization** on the city of Dallas police arrests. Found that the yearly crime rate in the city dropped by **19%** in 2023. Arrests are 102% higher at night compared to afternoons on weekends.

Heart Attack Prediction System using classification algorithm: Defined predictive ML models using **decision tree** and **SVM** that predict whether a patient is prone to a heart attack, revamping **86%** accuracy, 77% recall rate, and 82% precision.

EDUCATION

University of North Texas 01/2023-12/2024

M.S. in **Advanced Data Analytics**

GPA: 4.0/4.0

AWARDS/CERTIFICATIONS

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