**INDHRA KIRANU N A**

Whitefield, Bengaluru, India | P: +91 8332832027 | [indhrakiranu39@gmail.com](mailto:indhrakiranu39@gmail.com) | [LinkedIn](https://www.linkedin.com/in/indhra/) | [GitHub](https://github.com/indhra) | [Kaggle](https://www.kaggle.com/naiku007)

**SUMMARY**

A highly motivated Data Scientist streamlined data science pipelines & extracted insights using big data tools to solve complex business problems across domains. Expert problem framer and, built & deployed ML models driving tangible business value, with an emphasis on results ownership and prompt delivery. Collaborative, passionate innovator seeking to amplify data-driven impact.

**EXPERIENCE**

**Daimler Trucks Innovation Center (Mercedes Benz Research & Development) – Bengaluru, India**

*Data Scientist**May 2021 – Present*

* An early detection and forecasting of electric Axle component failure in e-powertrain by training Auto Associative Neural Network model from TensorFlow resulting in two weeks early forecast of the vehicle downtime.
* Built battery health pipeline by SQL on Azure over sensor data, identified key degradation KPIs, leading to 5% reduction in warranty claims and a Power BI reports for tracking and optimizing maintenance.
* Developed an automated data-based charging scheduling strategy using a novel hybrid technique, resulting in a projected 1.5% reduction in energy consumption, model is deployed for production.
* Scripted an high quality temperature forecasting solution for optimal vehicle operations and extended system life, improved the existing business metrics.
* Designed a machine learning (ML)-driven Python application that finds important safety flaws in vehicles, 90% quicker than with humans. Employed user-friendly, a reusable package of unsupervised clustering methods on multi-variate time series data from vehicles, allowing early failure identification and avoiding expensive recalls.

*Post Graduate Engineer Trainee**Nov 2020 – May 2021*

* Developed a cloud-based, ML-powered battery life modeling project for buses using structured and semi-structured data in Azure Databricks, creating Business KPIs to understand trends and enabling customers to optimize battery usage, parallel Git version control improved the accuracy over time.
* Uncovered deeper system features and performance insights by using limited data and domain expertise, to close the knowledge gap between analytics and research by offering data-driven solutions in all necessary domains, through advanced analytics - Affinity analysis.

**Upwork – Freelance, Remote**

*Machine Learning Engineer**May 2020 – Nov 2020*

* Analyzed data from retailers across 6 Countries and used outputs to increase book sales by 4.2% by forecasting sales using Ensemble of models, despite turbulent data.

**EDUCATION**

**Vellore Institute of Technology (VIT) UNIVERSITY – Vellore, India** *April 2020*

* M.Tech - Master of Technology in Controls & Automation; Cumulative GPA: 8.5/1.0
* Machine Learning, Advanced Statistical Analysis
* Master Thesis: Applications of Reinforcement Learning for Predictive Maintenance, Collaborative Robotics & Quantum Machine Learning for Telecom applications.

**SKILLS**

**Programming Languages**: Python, SQL, R

**Libraries**: Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Plotly, SciPy, Statsmodels, TensorFlow, Pytorch, NLTK, Py-spark, Fast.AI, Math

**Modelling Techniques**: Linear Regression, Logistic Regression, Naïve Bayes, K-Means Clustering, Ensemble Models, Decision Trees, XGBoost, ARIMA, Neural Networks, Auto-Associative model.

**Data Science & Big Data**: Exploratory Data Analysis, Data Mining, Data Visualization, Statistics, Time Series, A/B Testing, Hypothesis Testing, ETL,Excel, GIT, Microsoft Power BI, Tableau, Microsoft Azure, Databricks.

**CERTIFICATIONS & ACHIEVEMENTS**

* *Microsoft Certified:* Azure Data Scientist Associate
* Kaggle Competition Winner and Kaggle X attendee
* Departmental Bronze award for successfully diagnosing and root causing vehicle issues using Machine Learning workflows.