INDHRA KIRANU N A

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SUMMARY

A highly motivated Data Scientist streamlined data pipelines & extracted insights using big data tools. Expert problem framer & root-cause analyst. Built & deployed ML models driving tangible business value. Collaborative, passionate innovator seeking to amplify data-driven impact.

EXPERIENCE

Daimler Trucks Innovation Center (DTICI) – Bengaluru, India

Data Scientist   *May 2021 – Present*
- An early detection of Battery thermal run-away in e-powertrain by training Auto Associative Multi-Layer Perceptron Neural Network resulting in safeguarding battery from total damage.
- *Developed an ML-based Python tool* that identifies critical safety issues in customer vehicles 90% faster than manual methods. Utilized unsupervised clustering algorithms on multi-variate time series data from vehicle loggers, enabling early detection of potential failures and preventing costly recalls.
- Developed an automated data-based charging scheduling strategy using a novel hybrid technique, resulting in a projected 1.5% reduction in energy consumption.
- An in-depth Issue and Root Cause analysis of Charging and Cooling systems on regular basis to uncover the hidden patterns and faults in the system by exploratory data analysis, using multi-variate time series data from vehicle sensors.

Post Graduate Engineer Trainee   *Nov 2020 – May 2021*
- Built battery health pipeline on Azure Databricks processed sensor data, involves data quality checks in SQL & data pre-processing, identified key degradation Key Performance Indicators KPIs, leading to faster data analysis and anomaly detection and a Power BI reports for tracking and optimizing maintenance.
- Uncovered deeper system features and performance insights by data mining, using big data and domain expertise, through advanced statistical analysis - affinity analysis, extracting meaningful insights.
- Promoted to fulltime within 6 months due to strong performance and organizational impact (6 months ahead of schedule)

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*
- 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, Pyspark, Fast.AI
Modelling Techniques: Linear Regression, Naïve Bayes, K-Means Clustering, Ensemble Models, Decision Trees, Random Forest, XGBoost, ARIMA, VARMA, Neural Networks.
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.
- Deep Learning Specialization from Coursera
- Departmental Bronze award for successfully diagnosing and root causing vehicle issues using Machine Learning.