Aasritha Kosaraju

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TECHNICAL SKILLS

Languages: Python, SQL, R, JSL, VBA
Libraries: NumPy, Pandas, Scikit, Matplotlib, TensorFlow, Keras, SciPy, Selenium
Tools: Jupyter, AWS, Azure, JMP, Alteryx, PyCharm, Docker, Spyder, PowerBI
ML Knowledge: NLP, MLR, SVM, SARIMA, KMeans, CNN

EDUCATION

University Of Waterloo — **Waterloo, ON**
Bachelors of Mathematics: Honors Mathematics , Statistics (Co-op) — *Graduating 2024*

EXPERIENCE

Siemens Healthineers — **Toronto, ON**
Data Scientist - Product Engineering — *September 2023 - Present*

- Developed a robust **clustering algorithm** using **KMeans** and **Elbow method**, resulting in a more accurate classification of data points and improving overall model performance by **20%**.
- Created a **Multiple Linear Regression** model in **JSL(JMP)** to deduce the relationship between enzymatic reactions and sensor characteristics, enhancing Lactate level prediction for EPOC.

Genworth Financial — **Toronto, ON**
Data Scientist - Operations Analytics — *September 2022 – December 2022*

- Started a **scheduling model** with **time series data** and file queuing logic using **Alteryx** and **Pandas** to optimize underwriter timings.
- Increased predictive model accuracy by **25%** through data analysis using **Pandas, Numpy** and **Scikit**.
- Created a system using **Natural Language Processing** to detect and prioritize files requiring urgent attention intended to significantly reduce manual review time.

Ontario Lottery and Gaming Corporation — **Toronto, ON**
Data Analyst - Information Technology Asset Manager — *September 2021 – May 2022*

- **Reduced data migration processing time** for Asset Management by **60%** with a robust **ETL** procedure using **Azure Data Factory**.
- Analyzed yearly changes in software asset prices for **500+ assets** using **Matplotlib** and **Seaborn** to identify areas of increased expenses resulting in 10% **reduction in overall expenses**.

Olympic Broadcasting Company — **Tokyo, Japan**
Data Scientist - Forecasting — *July 2021 - September 2021*

- Collaborated with NHK, Japan's **largest television provider**, to accurately forecast optimal airing times for the Olympic Games, using **Random Forest** and **Stochastic Gradient Descent**, resulting in increased viewership by 20%.
- Analyzed historical viewership data to identify patterns and trends that were leveraged to increase viewership, using **TensorFlow, SciPy**, **caret, randomForest**.

PROJECTS

Breast Cancer Survival Prediction ↗

- Conducted exploratory data analysis on **400+** breast cancer patients, leveraging **pandas**, **plotly** and **numpy** to visualize key variables and derive crucial insights.
- Employed **SVM**, optimized through hyperparameter tunings, achieving an **85%** accuracy rate for prediction of patient survival with evaluation based on precision, recall and **F1-score metrics**.