Aasritha Kosaraju

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EDUCATION

University Of Waterloo — **Waterloo, ON**

4A, Bachelors of Mathematics: Honors Mathematics , Statistics (Co-op) — *Graduating August 2024*

EXPERIENCE

Siemens Healthineers — **Toronto, ON**

Data Scientist - Product Engineering — *September 2023 - Present*

- Utilized clustering algorithms to group analytes from lab tests to report analyte characteristics.
- Developing **Random Forest** predictive models on **Scikit** to identify potential product anomalies.

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** in **Python** 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** in **Python** and **caret, randomForest** in **R**.

PROJECTS

FraudF ↗

- Developed a fraud detection model to **analyze large volumes** of transactional data and flag potential credit card fraud activity using **Random Forest** and **Gradient Boosting** in **Python**.
- Created an **ETL** pipeline to clean and preprocess transaction data, and train the model on a large dataset to accurately detect fraudulent transactions with **95% accuracy**.

TECHNICAL SKILLS

Languages:	**Python, SQL, R, JSL,** VBA
Libraries:	**NumPy, Pandas, TensorFlow, Keras, SciPy, Scikit,** Matplotlib, Seaborn, Statsmodels
Developer Tools:	**Jupyter Notebook, PyCharm, Docker,** Spyder
Platforms:	**AWS, Azure, JMP** Alteryx, PowerBI
ML Knowledge:	**NLP, Random Forest, Gradient Boosting, SVM, ARIMA,** CNN