Sami Kamal

Livingston, NJ

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Education

Rutgers University **Sep. 2021 – May. 2025**
Bachelor in Computer Science & Cognitive Science *New Brunswick, NJ*

Google TensorFlow Developer Certification **Feb. 2024**
Demonstrated expertise in TensorFlow for machine learning model development and deployment.

Relevant Coursework

- Data Structures
- Data Management
- Deep-Learning
- Algorithms
- Linear Algebra
- Intro to Data Science
- Discrete Mathematics
- Computer Architecture

Technical Skills

Languages: Python, Java, C, JavaScript, HTML/CSS
Developer Tools: VS Code, Jupyter Notebook, Google Colab, Eclipse
Technologies/Frameworks: TensorFlow, Scikit-Learn, NumPy, Matplotlib, Pandas, GitHub, LaTeX

Projects

Multi-class Dog Breed Classification | *Python, TensorFlow, Google Colab* **August 2023**

- Developed a multi-class image classifier using a neural network in TensorFlow for a challenging task of dog breed classification.
- Implemented deep learning and transfer learning techniques, working with a dataset containing 120 different dog breeds, requiring fine-grained classification.

Predicting Bitcoin: Time Series Forecast | *Python, TensorFlow, Google Colab* **Jan 2024**

- Implemented advanced LSTM and N-BEATS models to predict Bitcoin prices, effectively capturing the nuances of market volatility and trends.
- Critically evaluated model predictions against real-world data, offering insights into the complexities of financial forecasting in the cryptocurrency sector.

Skimmable Literature | *Python, TensorFlow, Google Colab* **Dec 2023**

- Designed an NLP model leveraging token, character, and positional embeddings to effectively make medical abstracts more accessible and easier to understand.
- Through iterative testing and optimization, significantly enhanced the model's ability to present complex medical information in a user-friendly format, catering to diverse reader groups with an accuracy of 86.30%.

Heart Disease Classification | *Python, Scikit-Learn, Jupyter Notebook* **May 2023**

- Developed a machine-learning model capable of predicting whether or not someone has heart disease based on their medical attributes, using the Cleveland data set from the UCI Machine Learning Repository.
- Conducted a comprehensive assessment of the tuned Logistic Regression model, achieving a robust 90% accuracy and evaluating various performance metrics

Bulldozer Price Regression | *Python, Scikit-Learn, Jupyter Notebook* **July 2023**

- A machine-learning model capable of predicting the sale price of a bulldozer, using a Random Forest Regressor for the prediction task.
- Utilized RMSLE (Root Mean Squared Log Error) to measure the accuracy of predictions, successfully building a predictive model for bulldozer prices with high accuracy.

Extracurricular

Delta Kappa Epsilon (Phi Chi Chapter) **Spring 2022 – Present**
Rutgers University

- Led a chapter of 80+ members to work towards goals that improve and promote community service, academics, and unity.
- Volunteered at the Community Food Bank of New Jersey to provide meals for over 500 families.