

SAMI KAMAL

Livingston, NJ

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Education

Rutgers University

Bachelor in Computer Science & Cognitive Science

Sep 2021 – May 2025

New Brunswick, NJ

Google TensorFlow Developer Certification

Feb 2024

Demonstrated expertise in TensorFlow for machine learning model development and deployment.

Relevant Coursework

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|-------------------|-----------------|-------------------------|-------------------------|
| • Data Structures | • Deep-Learning | • Linear Algebra | • Discrete Mathematics |
| • Data Management | • Algorithms | • Intro to Data Science | • 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

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%.

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.

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

Aug 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.

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.

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.