

Ayoub El Guennouni

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EDUCATION

Virginia Commonwealth University

BS in Computer Science

Richmond, VA

Aug. 2023 – June. 2027

PROJECTS

Neural Network | *Python, Numpy*

August 2023 – September 2023

- Developed a Neural Network from Scratch for Classifying Spiral Data: Focused on multi-class classification using foundational Python libraries.
- Implemented Core Neural Network Components: Included custom layers such as LayerDense, ActivationReLU, and ActivationSoftmax.
- Achieved Hands-On Experience in Neural Network Basics: Gained a thorough understanding of network layers, activation functions, and loss calculations.

Kaggle Dataset | *Python, Numpy, Pandas, Plotly, Matplotlib*

June 2023 – June 2023

- Explored Significant Investment Patterns: Identified and evaluated major investment deals, shedding light on the dynamic venture capital landscape.
- Utilized Advanced Data Analysis Techniques: Employed statistical methods and data visualization tools to interpret complex financial data.
- Gained Insights into the Venture Capital Ecosystem: The analysis provided a clear picture of the sectors and companies attracting the most significant investments.

Brain Tumor Detection AI | *OpenCv, Numpy, Pillow, Tensorflow, Flask, Keras, CSS*

October 2023 – December 2023

- Developed a Convolutional Neural Network (CNN) for detecting brain tumors from MRI images, utilizing a custom-compiled dataset to train the model with a 97.7 accuracy
- Applied image processing techniques to enhance model input quality, leading to a robust architecture capable of accurate binary classification.
- The project achieved high accuracy, as evidenced by validation metrics, and the resulting model was integrated into a Flask web app for real-time diagnostic predictions.

EXPERIENCE

Barista

March 2023 – September 2023

Starbucks

Springfield, VA

- Mentored new team members in barista skills and customer service, fostering a collaborative and efficient work environment
- Excelled in multitasking and managing detailed orders, honing skills in handling complex data sets and tasks efficiently

Host/Server

March. 2022 – January 2023

Yard House

Springfield, VA

- Demonstrated strong problem-solving skills while managing seating arrangements and resolving guest complaints.
- Worked collaboratively with other staff members to ensure the efficient flow of operations during peak dining hours.

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript, HTML/CSS

Frameworks: React, Flask, TensorFlow, Keras, PyTorch

Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio

Libraries: pandas, NumPy, Matplotlib, scikit-learn