Jacob Johnson

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LinkedIn:www.linkedin.com/in/jacobj2718 | Portfolio: github.com/JacobJ215

Technical Skills

Proficient in SQL, PostgreSQL, Amazon Athena, AWS S3, Sagemaker, Tableau, Python, PyTorch, Scikit Learn, Keras, TensorFlow, Deep Learning, Convolutional Neural Networks, Computer Vision, Image Processing, OpenCV, and Object Detection.

Machine Learning Projects

OCR Web Application | https://github.com/JacobJ215/Optical-Character-Recognition-WebApp
- Created a custom dataset of 450+ images using LabelImg and Pascal VOC annotations
- Built the web application using Python, OpenCV, TensorFlow, Pytesseract, Flask, and Streamlit, allowing users to upload an image and choose between Yolov5 and InceptionResNetV2 for object detection and text extraction of license plates.

Image Classification | https://github.com/JacobJ215/Real-Time-Image-Classification:
- Created an image classification application using TensorFlow and convnets, deployed with Flask

Crypto Predictor | github.com/JacobJ215/LSTM-Stock-Predictor:
- Built deep learning models using the "Fear and Greed" Index values and the closing prices to determine if the FNG indicator provides a better signal for cryptocurrencies than the closing price

Work Experience

American Paradigm Schools | Data Analyst | Feb 2022 - Present
- Transitioned the Data Team's infrastructure, reporting, and visualization from Excel to Tableau.
- Created an automated pipeline using Python, AWS, and Tableau to extract, clean, and transform raw data saving hours of manual work.
- Built Tableau dashboards to analyze and track HR attrition, K12 assessment, attendance, and various components of demographic data.

edX | Teaching Assistant/Tutor for FinTech and Data Visualization Certificate/Bootcamp Programs | Sept 2021 - Present
- Assisted in the instruction of professional learners on Python, Pandas, APIs, SQL, PyViz, Time Series Analysis, Machine Learning, Deep Learning, NLP, AWS S3, Sagemaker, Lex, and Algorithmic Trading.
- Provided lecture instruction in absence of the Primary Instructor.

Education & Certification

- **The Pennsylvania State University, University Park, PA | Aug 2019**
  Bachelor of Science - Mathematics, minor in Physics
- **The University of Pennsylvania, Philadelphia PA | July 2021**
  Certificate, FinTech
- **Tableau**: Tableau Certified Data Analyst **| Nov 2022**