Huy Ho

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EDUCATION

University of California, Berkeley | Berkeley, CA Expected Graduation: Dec 2022
B.A. - Data Science and Statistics

Coursework: Principles and Techniques of Data Science, Data Structures, Algorithms, Databases, Artificial Intelligence, Machine Learning, Data Inferences & Decisions, Calculus, Linear Algebra, Statistics, Probability, Macro/Microeconomics, Econometrics, Businesses Analytics, Web Design

SKILLS & TECHNOLOGICAL TOOLS

Languages: Python, Java, SQL, R, HTML, CSS, JavaScript
Technologies: Numpy, Pandas, Tensorflow, Keras, Scikit-Learn, Matplotlib, Seaborn, Geopandas, Flask, SciPy
Others: Jupyter Notebook, Anaconda, Tableau, Git, MS Office, G Suite, Adobe Suite, LaTeX, Regex, DE-TR

EXPERIENCES

Research Intern | United States Army Research Laboratory Sep 2021 - Present
- Conducted research in Machine Learning and Computer Vision (DE-TR).
- Investigated the ethical implications of facial recognition.

Data Science Intern | Nozomi Networks May 2021 - Aug 2021
- Researched and experimented with supervised and unsupervised machine learning techniques for time-series data using the scikit-learn libraries.
- Used Keras and Tensorflow to implement a neural network model to forecast time-series and built an ensemble classifier to classify anomalies.
- The model was put into production and introduced to the company's pipeline.

Project Manager and Logistics Lead | DataGood @ Berkeley Jan 2021 - Present
- Led a team of 8 students to help external organizations find insights and solutions using computer science, data science, and machine learning techniques.
- I serve as a point of contact to outside organizations and manage the club's logistics.
- Teach fundamental CS/DS skills such as Git, SQL, Tableau, and relevant libraries.

PROJECTS

Stock Market Forecasting Analysis | *Python, Pandas, Keras, Tensorflow, StatsModels*
- Used Yahoo Finance API to investigate stocks. I applied machine learning techniques for forecasting, clustering, and analysis. I implemented LSTM, CNN, XGBoost, ARIMA models to test different approaches towards time-series forecasting and used them to predict other stocks.

Washington DC and Chicago Crime Analysis | *Python, Pandas, Tableau*
- Analyzed data using Pandas, regression, geospatial analysis, and produced data visualization. The final deliverable was an analysis of crimes in Chicago and DC to explore trends across different factors. The visualization was a set of GeoPandas maps and Tableau dashboards.

Spam and Ham Email Classifier | *Python, Pandas, Scikit-learn*
- I created a data pipeline to process the data and built a model to predict whether an email was spam or ham with a 90% training accuracy on the test set. The following methods were used: feature selection, one-hot encoding, NLP, and logistic regression.

Lahman Baseball Database | *SQL*
- Wrote SQL queries to extract information from the Lahman's Baseball Database. Investigated trends ranging from saber-metrics, school-attended, salaries, and others.

Twitter Bot | *Python*
- Using the Twitter API, I created a bot autonomously tweets and retweets. The bot posts daily optimistic quotes to Twitter and extract the stock market news. I then performed analysis on these tweets and build a classifier using NLP and regression.