Linda Dominguez

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Education

Wellesley College — Wellesley, MA
B.A. Psychology — Sep. 2020 – May 2024
Relevant Courses: Data Structures, Computer Programming & Problem Solving, Statistics, Java Object Oriented Programming, Human Computer Interaction, Artificial Intelligence

Massachusetts Insitute of Technology(MIT) — Cambridge, MA
Cross-registered student: Computer Science, Machine Learning, & Data Science — Sep. 2021 – May 2024
Relevant Courses: Intro CS, Programming Fundamentals, Web Design, WebLab, Machine Learning, Software Systems for Data Science, Deep Learning

Experience

Biointerphase, Machine Learning Engineer Intern — Sep. 2023 - Dec. 2023
Remote
- Collaborated with a biotech company to develop a predictive model for forecasting bat population decline

Breakthrough Tech AI MIT, Fellowship — June 2023 - Present
Massachusetts Institute of Technology
- Received training in machine learning and gained a machine learning foundations certificate

Goldman Sachs Virtual Insights Series — May 2023 - June 2023
Remote
- Gained valuable industry insights into global financial markets and investment strategies

Research Assistant, Bahns Lab, Wellesley College — Sep. 2021 – May 2022
Wellesley, MA
- Developed measurement scales & performed data analysis on Qualtrics & MTurk using Excel, SPSS, & Tableau

Skills

Programming Languages: Python 3, Java, R, HTML, CSS
Software & Libraries: Github, Pandas, Numpy, Matplot, TensorFlow, Scikit-learn, Flask, Bootstrap, Linux
Certificates: Machine Learning Foundations Certificate issued by Cornell Tech
Other: Jamovi, OOP, LaTeX, Figma, GPT-4 API, quick-learner, detail-oriented, Machine Learning, AI, Regex

Hackathons

MakeHavard 2024 — Feb. 2024
NIKE, Inc. INSIDIOUS Hackathon — Mar. 2023
Google Vertex AI Hackathon — July 2023
Datathon@LISH Harvard — Sep. 2023

Projects

Stock Price Prediction Using Sentiment Analysis | *Alpaca API, Pandas, NLP* — In Progress
- Used sentiment analysis to model stocks with dramatic sudden swings beyond the market average in less than a week and obtained news articles from that time period to predict stock prices

New York Botanical Gardens Image Classification | *Pandas, Numpy, TensorFlow* — Jan. 2024 - Present
- Built a multicategorical **ResNet101V2 model** to categorize **120,000+ images** belonging to **10 classes** of plant & animal specimen, with **97% accuracy**
- Top 15 out of 75+ national teams

Cryptocurrency Price Prediction | *Alpaca API, Pandas, Plotly, Matplotlib* — Mar. 2024
- Standardized testing data and trained an **XGBClassifier** model using KFold (10 splits) with a **99% accuracy**

HealthAssess | *Flask, Python, GPT-4 API, Numpy, Seaborn, MatplotLib, HTML* — Feb. 2024
- Developed web based, AI generated health assessment tool that uses live heart rate data readings for analysis

Bat Population Predictive Model | *MatplotLib, Pandas, Numpy* — Aug. 2023 - Dec. 2023
- Developed two ML predictive (**random forest** & **NLP**) models to assess bat population decline across North America using acoustic timestamp data with an **97%** and **87%** accuracy, respectively

Activities and Leadership

Camellia Student Leadership Award Recipient, *Awarded by Wellesley College* — May 2023
Wellesley College Honor Code Council, *Deputy Chief Justice* — Sep. 2022 – May 2023
Wellesley College CS Club, *General Member* — May 2023 - Present
Wellesley College Engineering Society(WES), *General Member* — Fall 2023 - Present
MIT SHPE(Society of Hispanic Professional Engineers), *General Member* — Fall 2023 - Present