Max Matkovski

Software Engineering and Data Science

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Education

University of California, Los Angeles **Sep. 2019 – May 2022**

Bachelor of Science in Cognitive Science, Computer Science *Los Angeles, CA*

Relevant Coursework

- C++ Programming
- Data Structures
- Algorithm Analysis
- Machine Learning
- Data Science - Python
- Statistics with R
- Research Methods
- Behavioral Neuroscience
- Cognitive Science
- Calculus
- Analytics with Excel
- Financial Accounting

Experience

Finphil Tel Aviv **May 2021 – August 2021**

Data Science Intern *Tel Aviv, Israel*

- Managed large data set in SQLite, discovered customer insights to promote a Financial Technology Platform using Hypothesis Testing, Logistic Regression, and other Statistical Testing Methods.
- Generated concrete data visualizations using Matplotlib and Plotly which demonstrated the benefits of using proprietary algorithm versus traditional wealth management platforms.
- Data insights and visualizations which I created were presented to investors during fundraising pitch meetings.
- Worked in a mainly remote environment while communicating in English and Hebrew interchangeably.

LeNgineer **November 2020 – May 2021**

Software Engineering Intern *Titusville, Florida*

- Developed a full-stack web based search engine for used cars using HTML, CSS, JavaScript, SQL, and React.js
- Contributed to a web scraper which used Python (Selenium) to interact with web page elements and gather data about used cars and store them in a structured database.
- Designed several product features eg. customized used car recommendations and location based query results.
- Collaborated with fully remote team who was three hours ahead using version control systems such as Git to organize modifications and assign tasks.

Sanford Burnham Prebys Research Institute **December 2018 – May 2019**

Alzheimer's Research Intern *San Diego, California*

- Statistically analyzed research data to investigate possible correlation of Protein ATF6a with Alzheimer's Disease.
- Helped write grant approvals to the National Institute of Health to support funding for our research project
- Assisted with essential lab duties, including genoytyping, gel electrophoresis, autoclaving, etc...

Projects

Water Potability Classification | *Decision Trees and Random Forests*

- Implemented Decision Tree and Random Forest models to discover to predict water potability using optimal features.
- Compared efficacy of Decision Tree vs Random Forest models to decide which model would be most effective for classification.

Heart Disease Classification | *K-Nearest Neighbors*

- Performed binary classification on UC Irvine Heart dataset to predict the presence of heart disease.
- Improved models' precision from 76 percent to 94 percent through K-Value optimization.

Avocado Volume Predictor | *Linear Regression*

- Predicted Avocado Sales as a continuous variable based on several numeric variables using Linear Regression.
- Discovered new predictors which have significant effect on Avacado sales.

Stock Analysis | *Exploratory Data Analysis*

- Performed comprehensive statistical analysis of various stock prices, stock volume and volatility.
- Categorized predictions based on a variety of chronological and situational factors of the stock market.

Technical Skills

Languages: Python, C++, C, HTML/CSS, JavaScript, R, SQL
Libraries: Pandas, NumPy, Matplotlib, Seaborn, Plotly, Scikit-Learn
Tools: VS Code/Visual Studio, Git, Jupyter, Excel, Tableau, AWS, Azure
Spoken Languages: English, Russian, Spanish, Italian, Portuguese, Hebrew, and Farsi
Interests: Language Learning, One Bag Travel, Financial Technology, Machine Learning, AI, Blockchain, Cryptography