Max Boonjindasup

Data Scientist

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Profile

Formerly a scientist with 4 years experience in pharmaceuticals and academic research and now pivoting towards data science. Excellent in analyzing large datasets, creating visualizations, developing robust ML models, and delivering data-driven insights for stakeholders.

Certificates

- IBM Data Science
- Google Data Analytics

Skills

- Languages: Python, SQL, R, Matlab
- Data Wrangling: Pandas, NumPy, EDA, Web Scraping
- Data Visualization: Matplotlib, Seaborn, Plotly, Tableau, Excel, PowerPoint
- Machine Learning: Hypothesis & A/B Testing, Regression, Classification, Neural Networks

Projects

Heart Disease Predictor
- Performed exploratory data analysis on ~900 patient samples through NumPy, Pandas, and Matplotlib to identify patterns, handle missing and categorical data, and transform datasets.
- Trained 5 models (kNN, NN, XGBoost, DT, and SVM) using cross-validation, GridSearchCV, scikit-learn, and tensorflow to classify the presence and absence of heart disease and evaluated each model's and accuracy.

Airbnb Analysis
- Analyzed over 50,000 NYC Airbnb entries using NumPy and Pandas and discovered that Manhattan has 80% of the market share, comparison models visualized with Matplotlib and Seaborn.
- Employed 5 regression techniques and achieved a 99% accuracy in predicting geographic location based on pricing information, enabling actionable insights for targeting new clients and optimizing market strategies.

Professional Experience

Manager, *Beverly Hills Arthritis Associates* 11/2021 – 11/2022
Beverly Hills, USA
- Managed over 120 of the physician's med-legal cases by reviewing attorney letters, serving as the liaison between parties, and submitting reports with medical evaluations for worker's compensation.
- Documented and organized patient data into the Epic electronic health record system (CS-Link) and fulfilled phlebotomy duties.

Research Associate II, *Cedars-Sinai Medical Center* 03/2021 – 10/2021
Los Angeles, USA

- Created and managed 3 Excel templates to automate data calculation for efficient and accurate experimentation, reducing workloads and transcription errors.
- Researched the interplay between extracellular vesicles, macrophages, and T-cells in muscle regeneration.

Associate Scientist, *Amgen* 07/2019 – 01/2021
Thousand Oaks, USA

- Developed an end-to-end system that automates Amgen's workflow via data capture, analysis, and reporting for numerous projects, culminating in a company-wide presentation.
- Led multiple method development efforts that progressed 9 drugs towards FDA-approval and market release.

Publications

Individual Alpha Frequency Determines the Impact of Bottom-Up Drive on Visual Processing
Stephanie Nelli, Aayushi Malpani, **Max Boonjindasup**, John T Serences, Individual Alpha Frequency Determines the Impact of Bottom-Up Drive on Visual Processing, Cerebral Cortex Communications, Volume 2, Issue 2, 2021, tgab032, https://doi.org/10.1093/texcom/tgab032

Alpha entrainment of posterior visual cortex impacts visual detection
Stephanie Nelli, **Max Boonjindasup**, Aayushi Malpani, John Serences; Alpha entrainment of posterior visual cortex impacts visual detection. Journal of Vision 2017;17(10):976.

Education

Bachelor of Science, *University of California San Diego* 09/2014 – 06/2018
Cognitive Science with a Specialization in Machine Learning and Neural Computation La Jolla, US

Bachelor of Science, *University of California San Diego* 09/2014 – 06/2018
Biochemistry and Cell Biology La Jolla, US