Max Boonjindasup

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Skills

Languages: Python, SQL, R, Git, Matlab

Modeling: Regression, Classification, Neural Networks, PCA

Tools: Tableau, Power BI, Docker, Excel, Jupyter Notebook

Statistics: Hypothesis Testing, A/B Testing, Multivariate Analysis

Projects

09/2023 – present — **Data Market Analysis: Industry & Experience Decoder for Datanerd App**
- Developing a robust model for the Datanerd app that discerns industry categorization and experience levels by processing scraped data sourced from job postings.

09/2023 – present — **Deep Dive Analysis on Climate Change and Sriracha Supply**
- Researching climate patterns to examine their effects on the agricultural sector and the cascading influence on the economic supply chain.

07/2023 – 08/2023 — **Predicting Employee Retention** ↗
- Built an *employee attrition model* (*XGBoost - 98% accuracy and precision*) that identified 5 key factors for improving employee tenure, *leading to a possible 20% increase in project management and employee satisfaction*.
- Conducted data cleaning, processing, and analysis over a 5-year employee dataset to predict employee retainment and visualized insights through *Pandas* and *Seaborn*.

04/2023 – 05/2023 — **Heart Disease Predictor** ↗
- Developed an *ensemble of machine learning models* (*kNN, NN, XGBoost, DT, SVM*) to *classify heart disease presence*. Employed cross-validation and *GridSearchCV* for optimization, resulting in a *neural network with a 100% accuracy*.
- Performed exploratory data analysis on ~900 patient samples through *NumPy*, *Pandas*, and *Matplotlib* to identify patterns, handle missing/categorical data, and standardize variables.

Relevant Experience

11/2021 – 11/2022
Beverly Hills, USA

Manager, *Beverly Hills Arthritis Associates*
- *Automated data analysis* of accounting ledger and *identified* nearly *$100,000 in unpaid accounts*.
- Provided leadership to a team of administrative staff, optimizing patient record coordination, while managing over 120 med-legal cases, data documentation in Epic EHR, and phlebotomy duties.

07/2019 – 01/2021
Thousand Oaks, USA

Associate Scientist, *Amgen*
- Prototyped an *end-to-end system that seamlessly automates Amgen's workflow*. This encompassed precise data capture, rigorous analysis, and comprehensive reporting for diverse projects, *culminating in a company-wide presentation and subsequent leadership role* for ongoing development.
- Led multiple method development efforts that progressed 9 drugs towards FDA-approval and market release.

Certificates

- Google Advanced Data Analytics
- IBM Data Science
- Data Science in Healthcare

Education

09/2014 – 06/2018
La Jolla, US

Bachelor of Science, *University of California San Diego*
Cognitive Science with a Specialization in Machine Learning and Neural Computation

09/2014 – 06/2018
La Jolla, US

Bachelor of Science, *University of California San Diego*
Biochemistry and Cell Biology

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.