Max Boonjindasup

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Skills

Languages: Python, SQL, R, Git, Matlab	Tools: BigQuery, Tableau, Power BI, Docker, Excel
Modeling: Regression, Classification, Neural Networks, PCA	Statistics: Hypothesis Testing, A/B Testing, Multivariate Analysis

Projects

09/2023 – present   **Skin Cancer Detector**
- Building an ML model that leverages image analysis and deep learning to classify skin lesions, enabling early melanoma detection and improving patient outcomes.

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   **Naval Warfare Analysis in the South China Sea**
- Tracked maritime vessel routes and conducted geospatial analysis of disputes related to territorial claims between China, Vietnam, and other neighboring countries.

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 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.