Max Boonjindasup

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github.com/MaxBoonjindasup kaggle.com/maxboonjindasup

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

Personal Projects

09/2023 – present **Skin Cancer Detector**
- Building a deep learning model (*CNN* - ***95%*** ***recall and F1 score***) that **identifies *7* *skin cancer types*** and **predicts tumor growth zones**.
- Deploying the model on a ***website to accept user submission of photos and help identify malignant lesions***.

09/2023 – present **Data Market Analysis: Industry & Experience Decoder for Datanerd App**
- Developing an LLM (*ZeroShotGPTClassifier*) for the Datanerd app that labels industry type and experience levels by processing scraped job posting data.

09/2023 – present **Naval Warfare Analysis in the South China Sea**
- Tracking maritime vessel routes and conducting geospatial analysis of disputes related to territorial claims between China, Vietnam, and other neighboring countries.

07/2023 – 08/2023 **Predicting Employee Retention**
- Created 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 **Manager,** *Beverly Hills Arthritis Associates*
Beverly Hills, USA
- ***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 **Associate Scientist,** *Amgen*
Thousand Oaks, USA
- 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 **Bachelor of Science,** *University of California San Diego*
La Jolla, US
Cognitive Science with a Specialization in Machine Learning and Neural Computation

09/2014 – 06/2018 **Bachelor of Science,** *University of California San Diego*
La Jolla, US
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.