# Max Boonjindasup

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## Skills

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

## Certificates

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

## 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.

## 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.