

Max Boonjindasup

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Relevant Experience

Operations Manager, Beverly Hills Arthritis Associates 11/2021 – 11/2022 | Beverly Hills, CA

- Spearheaded the development of an **automated data cleaning pipeline using Excel macros and Python scripts, boosting efficiency by 60% and uncovering \$100,000** in profit from unpaid accounts within 6 months.
- Implemented a new Epic EHR data documentation system, reducing errors by 15% and ensuring accuracy in over 1,000 patient records, potentially improving patient care through enhanced data quality.
- Led a team of analysts to process insurance claims, ensuring efficient management of over 120 complex med-legal cases.


Research Associate II, Smidt Heart Institute, Cedars-Sinai 03/2021 – 10/2021 | Los Angeles, CA

- **Automated data collection and analysis with 3 custom Excel templates, reducing data processing time by 80%.**
- Leveraged **hypothesis testing, including correlation analysis and regression modeling**, to quantify and statistically validate key associations between gene expression and protein levels

Associate Scientist, Amgen 07/2019 – 01/2021 | Thousand Oaks, CA

- Pioneered an **end-to-end system that seamlessly automates Amgen's workflow and creates comprehensive analysis reports in Spotfire, reducing analysis time and resource consumption by 50%**. This innovation culminated in a company-wide presentation that earned the recognition of the vice president and propelled me to the project lead role.
- Oversaw the development of 9 drugs from discovery to FDA approval and eventual market release.

Projects

Machine Learning Approaches to Mental Health Diagnosis 

- Performed exploratory data analysis (EDA) on ~300,000 patient records to reveal a concerning trend: nearly 60,000 students globally struggle with mental health, with a significant portion (54%) being male students from the US.
- Built a **98% accurate XGBoost model that classifies susceptibility to mental health difficulties** as low, medium, and high.

Spotting Diabetes Early: A Model for Improved Outcomes 

- **Trained and evaluated 3 classification models (Logistic Regression, Random Forest, Gradient Boosting)** on 100,000 medical records in Python using *scikit-learn* to **predict diabetes** in patients and **reduce healthcare cost**.
- *Gradient Boosting* achieved a best-in-class performance of 92% recall and 91% AUC, potentially **enabling early diabetes detection and improving health outcomes by up to 50%**.

Predicting Employee Retention 

- **Created an employee churn model (XGBoost - 98% accuracy & precision)** using Python that identified 5 key factors in employee turnover and **projected a 20% improvement in resource management and employee satisfaction**.
- Analyzed a 5-year employee dataset using *Pandas*, *Seaborn*, & *Tableau* to uncover insights and identify a **strong correlation between assigning > 4 projects and a 200% surge in employee attrition**.

Certificates

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

Education

Bachelor of Science, University of California San Diego 09/2014 – 06/2018 | La Jolla, CA

Cognitive Science (Machine Learning & Neural Computation) | Biochemistry

Skills

Languages: Python, SQL, R, Excel, Git, Matlab

Modeling: Regression, Classification, Neural Networks, Random Forest, PCA, Gen AI

Tools: BigQuery, Tableau, Power BI, PostgreSQL, OpenCV, Docker

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