

# Max Boonjindasup

📍 Los Angeles    📞 818-428-0901    ✉ mboon1228@gmail.com    📁 Portfolio    🏆 Kaggle    🐙 Github    🔗 LinkedIn

## Skills

Languages: Python, SQL, R, Excel, Matlab

Statistics: Hypothesis & A/B Tests, Regression, Classification

Tools: AWS, BigQuery, Databricks, Docker, Git, Langchain, Power BI, PostgreSQL, PySpark, Spark SQL, Spotfire, Tableau

ML: Deep Learning, Gen AI, k-means, Neural Networks, PCA, RAG Pipelines, Random Forest, XGBoost, Clustering

## Relevant Experience

**Data Scientist, Upwork**

02/2023 – present | Remote

- **Developed a RAG-based system on AWS using Bedrock and Sagemaker that automated document and image parsing and enabled natural language question answering**, reducing query response time by 40%
- Built a data pipeline utilizing AWS Lambda, Textract, S3, and Bedrock (Cohere Embed V3) to store and retrieve vector embeddings in DocumentDB, supporting semantic NLP responses with Bedrock (Claude V3 LLM)
- **Applied anomaly detection techniques** (graph analysis, k-means, DBSCAN, & hierarchical clustering) and PySpark on AWS Sagemaker, NumPy, & SciPy **to identify fraudulent overcharging in 16,000 vehicle service records**, visualizing results with Matplotlib, Streamlit, & Tableau and achieving 30% cost savings

**Data Science Consultant, Catenactio**

05/2024 – 09/2024 | Los Angeles, CA

- **Developed an HR chatbot powered by Generative AI (Gemini API) on Google Cloud Platform**, reducing repetitive inquiries by 40% and cutting HR operational costs by 25% through optimized synthetic training data
- **Architected automated data pipelines using Python and SQL**, enabling real-time cybersecurity threat detection and a 30% reduction in response times
- Delivered high-impact analytics solutions by collaborating with cross-functional stakeholders, driving a 20% increase in operational efficiency and accelerating business growth

**Operations Manager, Beverly Hills Arthritis Associates**

11/2021 – 11/2022 | Beverly Hills, CA

- Spearheaded the development of an **automated data cleaning pipeline using Excel 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
- Directed a team of analysts to process insurance claims, ensuring efficient management of over 120 complex med-legal cases

**Research Associate II, Cedars-Sinai (Smidt Heart Institute)**

03/2021 – 10/2021 | Los Angeles, CA

- **Improved data collection and analysis with 3 custom Excel templates**, reducing data processing time by 80%
- **Applied advanced statistical techniques in Python**, including correlation analysis and regression modeling, to quantify gene-protein associations, contributing to a 30% improvement in experimental reproducibility and validation

**Associate Scientist, Amgen**

07/2019 – 01/2021 | Thousand Oaks, CA

- **Developed an end-to-end system that automated Amgen's workflow by integrating Biovia ELN for assay templating and generating Spotfire reports**, reducing analysis time and resource use by 50%, which earned VP recognition and a promotion to project lead
- Authored technical reports documenting methodologies and findings, supporting regulatory submissions and internal reviews
- Oversaw the development of 9 drugs from discovery to FDA approval and eventual market release

## Projects

**Machine Learning Approaches to Mental Health Diagnosis** 📄

- **Visualized mental health trends in 300,000 patient records using Tableau and Python**, revealing key intervention areas, including that 54% of struggling students are US males
- Built a 98% accurate XGBoost model that classifies susceptibility to mental health difficulties as low, medium, and high

**Predicting Employee Retention** 📄

- **Engineered 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 | • AI/ML in Precision Medicine (Stanford Med) | • Data Science in Healthcare |
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## Education

**Bachelor of Science, University of California San Diego**

09/2014 – 06/2018 | La Jolla, CA

Majors: Cognitive Science (Machine Learning & Neural Computation) | Biochemistry & Cell Biology