

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
- Engineered and documented automated SQL pipelines in *Databricks* on AWS that accelerated data processing workflows by 80%, enabling faster delivery of business-critical insights

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

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| • 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