

John Elmer Loretizo

San Francisco, CA • jeploretizo@gmail.com • (628) 213-9505 • linkedin.com/in/jeploretizo

PROFILE

Early career data scientist passionate about solving complex business problems with data and algorithms, and communicating complex ideas to non-technical stakeholders.

Technologies: Python, R, SQL, MongoDB, Tableau, PySpark, LightGBM, Git, Scikit-learn, Pandas, Adobe Analytics

Competencies: Machine Learning, Data Visualization, Statistical Exploration, Data Analytics, ETL

Certification: AWS Certified Cloud Practitioner (SQ08R9MCMM4E12W1)

PROFESSIONAL EXPERIENCE

Senior Data Scientist, Cell Quality and Field Reliability Sep. 2022 – Present

Data Scientist, Cell Quality and Field Reliability Jun. 2021 – Sep. 2022

Associate Data Scientist, Cell Quality and Field Reliability Aug. 2020 – Jun. 2021

Tesla Inc. Fremont, CA

Leveraging analytics in cell technology to improve field reliability and safety for this global leader in clean energy products

- Identified key accelerating factors leading to cell-related failures by conducting analysis on 2+ trillion fleet usage data that resulted in software updates reducing risk and provided guidance in cell development research
- Correctly classified 80% of failure mechanisms by developing a two-level failure detection model using Python
- Quantified relationships between process metrics and field failures through survival analysis using R that helped identify areas of improvement in manufacturing
- Automated a weekly C-suite snapshot of key fleet metrics, field and manufacturing failures for in-house cell program that provided direction in manufacturing improvements
- Reduced retrieval and analysis time by creating central data repositories for full manufacturing traceability
- Developed two new methods to detect known failure in field providing real-time snapshot of fleet health

Data Scientist, MSBA Practicum Project Oct. 2019 – Jun. 2020

Cirrus Owners and Pilots Association San Francisco, CA

Engaged in practical training with this leading aircraft association, helping improve website experience via better search

- Developed a content scoring model for 250+ GB of site data including over 1 million forum posts, optimizing search relevance using statistics and NLP in Python
- Surveyed 10+ users about search engine model effectiveness; results defined future search improvement strategies
- Increased content by 75% by aggregating multiple data sources through APIs, Python web-scraping, and Javascript
- Identified drivers of user engagement based on 20-year website usage using SQL, Tableau, and R
- Created 5+ documents on enhancing forum search serving as knowledge base for future projects

Summer Analyst, Global Consumer Banking May 2019 – Aug. 2019

Citi Quezon City, PH

Contributed to enhancing customer's banking experience for this Fortune 500, working in the Data & Analytics Department

- Projected \$1.5 million annual savings by developing 2 machine learning models identifying customers with highest propensity to install mobile app using Scikit-learn in Python
- Assisted in maximizing salvageable retail spend to \$30 million by identifying optimal customer segmentation, leveraging decision tree mining models utilized in marketing campaigns
- Enabled customized product offerings for retail banking customers by applying K-means clustering in Python
- Trained risk and decision management teams, upskilling through 4 Python and machine learning sessions

Technology Research and Development Consultant (Full-time) Jan. 2019 – May 2019

Quantum Business Intelligence and Technology Solutions Inc. Manila City, PH

Lead consultant on a short-term contract for the biggest distributor of CPGs in the country's capital region, streamlining business processes and automating ERP systems

- Increased efficiency by 80% by evaluating business operations and structure, and eliminating redundant processes
- Achieved over \$35k annual savings by consolidating 5 data systems into 1 using SQL and Python
- Delivered new ERP system within 5 months; headed transition and training accelerating adoption time by 50%

EDUCATION

University of California, Davis San Francisco, CA

Master of Science, Business Analytics, Beta Gamma Sigma Honor Society Member (3.90) Jun. 2020

- Graduate Student Analyst: Increased applications by 20% YoY as part of the MSBA leadership team

Central Philippine University Iloilo City, PH

Bachelor of Science, Software Engineering, Magna Cum Laude (3.76) Apr. 2018