

Jephraim MANANSALA

Data Scientist | Business Analyst | Electrical Engineer

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Detail-Oriented Data Scientist with six years of hands-on experience in developing and executing data-driven solutions for the utilities and energy industry. Consistently driven actionable insights by seeing the 'big picture', delivered good results with cross-functional teams, and solved challenging problems. Having experienced the industry from the inside, I have recognized the potential growth opportunities by utilizing the power of data. This led me to develop and sharpen my knowledge in machine learning, artificial intelligence, big data analytics, statistical modelling, data engineering, and cloud computing. With my skills, experience, and industry exposure, I aim to support organizations toward data-driven decision-making to pave the way for innovation and growth.

EDUCATIONAL BACKGROUND

Asian Institute of Management MS Data Science Consistent Dean's Lister	Makati, Philippines 2020 - 2021
Mapúa Institute of Technology MS Electrical Engineering Petron Corporation Full-ride Scholarship Recipient	Manila, Philippines 2017 - 2020
BS Electrical Engineering Academic Scholar Petron Corporation Full-ride Scholarship Recipient 2nd Placer, Feb. 2014 PRC Registered Electrical Engineer Licensure Examinations	2009 - 2013

PROFESSIONAL EXPERIENCE

PETRON CORPORATION (<i>Oil Refinery, Power Plant, and Petrochemical Complex</i>) Project Engineer Planned, designed, implemented, and managed refinery and power plant capital expenditure projects ensuring the project will be completed on time, within the budget, and with the highest level of delivery standards <ul style="list-style-type: none">Formulated budgetary and detailed project cost estimates amounting to 1.5 Billion Pesos which guided the management in budget-related decision making and planning considerationsSupervised a team of 30 electrical and instrumentation personnel and synergized with multi-disciplinary teams to successfully construct and commission the 650 Million Peso oil distillation unit revampDesigned more than 200 blueprint sheets of international standards-compliant construction drawings which streamlined the implementation and execution of refinery and power plant construction projects	Bataan, Philippines 2018 - 2020
Electrical Reliability Engineer Ensured the safe, reliable, efficient, and economical operation of the electrical and instrumentation equipment at the oil refinery and power plant <ul style="list-style-type: none">Provided data-driven solutions and recommendations that contributed to energy savings amounting to millions of pesos and maintained zero percent downtime in the refinery and power plantSpearheaded the data collection, cleaning, and analysis for the Key Performance Indicators (KPIs) of the engineering and maintenance departments at the refinery and power plant which enabled effective business planning and organizational resource managementDeveloped an Asset Management Policy that optimizes Preventive Maintenance (PM) and Predictive Maintenance (PdM) for all electrical equipment to ensure the optimum performance throughout its life cycle	2014 - 2018
ACES REVIEW CENTER Lecturer Designed, developed, and delivered lecture materials using a range of methods and platforms. <ul style="list-style-type: none">Taught basic and advanced Electrical Engineering courses to more than 200 engineering licensure examinees	Manila, Philippines 2015-2016

DATA SCIENCE PROJECTS

- **Electricity Demand Forecasting**

Applied statistical methods and machine learning techniques such as ARIMA and Gradient Boosting Regressors in the Philippine electricity demand data to accurately forecast the day-ahead electricity demand in the Luzon Power Grid.

- **Data-driven Policy Making in the Education Sector**

Employed network science, natural language processing, and time series forecasting methodologies to gain actionable insights to future-proof the education sector with respect to the emerging job markets

- **Electricity Theft Detection**

Employed a Convolutional Neural Networks-based time series classification algorithm to identify customers with potential electricity theft using on the historical day-to-day electricity consumption data and achieved a model accuracy of 93%.

OTHERS

Languages: Filipino, English

Software / Technical Skills:

Python – Numpy, Pandas, Matplotlib, Seaborn, Scipy, Scikit Learn, Tensorflow, Keras, Dask, Apache Spark, Selenium, NetworkX, NLTK, GenSim, Scikit Image, OpenCV, PostGIS, OSMNx

Cloud Computing – AWS

Database Technologies – SQL

Web Development Technologies – HTML, CSS

Other Technologies – Git, MATLAB, Tableau, ETAP, SAP ERP, MS Office

Professional Development:

Advanced MS Excel Workshop for Professionals

Cybersecurity Certification Course

Kepner-Tregoe Analytic Troubleshooting Course

Effective Business Writing Workshop

Specific Other Relevant Skills or Experiences:

Business Management – Business Model Development; Financial Management; Operations Management; Strategy; Digital Marketing; Design Thinking

Project Management – Engineering, Procurement and Construction (EPC); Contracts Management; Change Management

Electrical Engineering – Power Systems Design, Modelling, Analysis; Economic Dispatch Optimization

Interests: Musical theatres