

With over 5 years of experience as a data scientist, analyst, and software engineer, I specialize in end-to-end Machine Learning solutions, from conceptualizing DS use cases to producing business value for my clients. I am skilled in Python, SQL, and NLP tools (LLMs, SpaCy, NLTK, Transformers), and I use these tools to create tailor-fit data-driven solutions for clients.

WORK EXPERIENCE

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2024, Aug-Sept

DATA SCIENCE CONSULTANT for Financial Services (Confidential)

- Applied NLP algorithms such as topic modeling to analyze multi-language customer feedback transcripts, improving insights related to payments and financial services.
- Utilized text classification and clustering techniques on user profiles to improve retention strategies and product ideation.

WORK EXPERIENCE

DATA SCIENCE CONSULTANT for Construction and Logistics (Confidential)

2024, Apr-Sept

- Employed advanced Machine Learning algorithms such as Random Forest to predict optimal departure time, thereby lessening delivery delays, and increasing revenue by Php 112 million annually.
- Coordinated with the client and cross-functional teams to design and develop ML models and automate data pipelines that streamlined the data transformation process from an average of 3 days to just minutes.
- Developed a dynamic Power BI dashboard, which insights were able to reduce trip time by an average of 27 hours per day, leading to fuel cost savings of Php 1.8 million annually.

WORK EXPERIENCE

DATA ANALYST for Data Studio Whiz (Data Services and Consultancy)

2022 – 2023

- Led the development of marketing analytics tools like the Google Analytics dashboard templates, reducing manual work by 240 hours per year resulting in savings of Php 44,880 annually.
- Collaborated with clients to create end-to-end data projects with SQL and Looker Studio to analyze their data, bringing data-driven insights into the industries of marketing, HR, real estate, health, and finance.

WORK EXPERIENCE

DATA ANALYST for TFMT (E-learning)

2021 – 2022

- Improved course delivery by analyzing student feedback, increasing course attendance from 200 to 800 students per session.
- Coordinated with marketing, operations, and product teams to develop programs that improved user retention and increased customer acquisition by 20%, through analysis of 5,000+ member feedback.

WORK EXPERIENCE

SOFTWARE ENGINEER for Magis Solutions (Web and App Development)

2017 – 2020

- Managed a team of 3 developers to develop scalable web applications in the industries of e-commerce, finance, human resources, and tech.
- Utilized SQL and PHP to develop programs while maintaining code quality through regular code reviews.

EDUCATION

Asian Institute of Management

2023 – 2024

Master of Science in Data Science | **Dean's List** (2024)

De La Salle University

2010 – 2013

Bachelor of Psychology

SKILLS: Python, SQL, Sentiment Analysis, NLP, SpaCy, BERT, Hugging Face, Text Classification, TensorFlow, PyTorch, Product Optimization, Search Algorithms, Web Scraping, API Integration, Data Wrangling, Data Mining

RELEVANT PROJECTS

Multilingual NLP for Education Feedback Analysis	<i>Education / NLP Analysis</i>
Applied SpaCy, Hugging Face Transformers, and BERT models to analyze 18,000 student feedback entries, automating anonymization, language detection, and sentiment analysis.	
Do Llamas Work in English?	<i>Journal Review / LLM</i>
Large Language Models (LLMs) have been proven to perform well in different languages, despite being trained on a largely English-based dataset. In reviewing the journal, Do Llamas Work in English, we uncovered how languages model "thinks in English" but "answers in the wanted language" using Logit Lens.	
Student Grades and Student Feedback Correlation	<i>Education / NLP Analysis</i>
Analyzed 18,000 student feedback using SpaCy NER , Hugging Face Transformers , and BERT for anonymization and sentiment analysis that can be applied to analyzing datasets like customer reviews .	
Sentiment Analysis for Customer Shopping Reviews	<i>E-commerce / Sentiment Analysis</i>
Performed sentiment analysis on customer reviews with TextBlob and a custom Naïve Bayes classifier, improving classification accuracy by 10%.	
Identifying Top Skills in the Philippine Data Industry	<i>Human Resources / Principal Components</i>
Scraped 10,000+ job postings from JobStreet and used SVD to reveal in-demand data skills. Recommended key skills in the local data industry, supporting career development for 60+ students.	
Mapping Profitable Locations to Build Solar Farms	<i>Sustainability / Geospatial Analysis</i>
Identified nationwide locations for solar farms based on land criteria and metrics, and determined the top 3 locations with potential annual earnings of at least Php 138 million per site.	
Creating Optimal Jewelry Bundles	<i>E-commerce / Frequent Itemset</i>
Applied Frequent Itemset Mining to create jewelry bundles , generating Php 250,000 in revenue for our client.	