

# Kristian Roger M. Agdeppa

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## PROFESSIONAL EXPERIENCE

**Business Analyst** · Greenergy Development Corp. July 2024 – July 2025

- Utilized JavaScript with **Google Apps Script** to design and develop a tracking and approval system using the Gmail API, automated **6** procedures across the finance and procurement department. Streamlined processes with a data-driven approach for bottleneck analysis, resulting in improved workflow efficiency
- Designed a data retrieval algorithm and developed dashboards in **Google Sheets** and **Tableau** that allowed the top management to monitor **KPIs** and **KRAs** of each department which resulted in **20%** faster completion of deliverables
- Perform **ad-hoc data analysis** and data-driven recommendations to C-level executives and department heads for business problem solving and analysis

**Jr. Data Engineer** · Climbs Life and General Insurance Cooperative March – June 2024

- Designed and optimized a deduplication algorithm for **12M** rows of data using Python that minimized client information search workload and data inaccuracy by approximately 30%
- Collaborated with a team of data scientists to design an **ETL** pipeline for scraping text data from 350 PDF files and a data cleaning process that utilizes regex to meet project constraints

## ACADEMIC BACKGROUND

**Bachelor of Science in Data Science** Cum Laude

## TECHNICAL TOOLS

Languages	Python, SQL, JavaScript
Developer Tools	Git, JupyterLab, VS Code, Google App Script, Streamlit, Google Workspace
Data Visualization	Tableau, PowerPoint, Excel, Google Sheets

## PROJECTS

**Optimizing U.T.I Diagnosis with Machine Learning and A.N.N for Reducing Misdiagnoses**

- Designed the objectives, methodology pipeline and system architecture of the study
- Designed a custom data retrieval algorithm to extract and load the required data from various sources
- Implemented hyperparameter tuning using Optuna framework and built a hybrid voting ensemble model with optimal hyperparameters
- Designed a data validation pipeline and integrated a MySQL database to the web application

**Application of Convolutional Neural Network for Baybayin Character Recognition**

- Designed the Convolutional Neural Network architecture
- Conducted a hyperparameter tuning for CNN using Optuna framework