Rainzle John M. Estuesta

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EDUCATION

Manuel S. Enverga University Foundation **2022 - 2026**

Bachelor of Science in Computer Science with specialization in Data Science *Lucena City, Quezon*

Relevant Coursework: Artificial Intelligence, Deep Learning, Machine Learning, Software Engineering

- *Academic Scholar*
- *Consistent Dean's Lister*

HACKATHONS & ACHIEVEMENTS

- **1st Place:** Cyber Fest Hackathon Competition, MSEUF CCMS (2024)
- **2nd Place:** Cyberweek 2025: Day 1 - Prototype Output Demonstration, MSEUF CCMS (2025)
- **3RD Place:** BPI DATAWave National Hackathon - Machine Learning Track (2024)
- **Top 5:** InnOlympics 2025, National Hackathon, GDSC - PLM × ING (2025)
- **Rank 3:** BSCS Program Recognition Award (1st Semester, A.Y 2024 - 2025)
- **Participant:** SIKAPTala National Hackathon, DLSU-D CICS (2025)
- **Participant:** ASEAN Data Science Explorers (2025)
- **Participant:** Philippine Junior Data Science Challenge, UPDSSoc (2025)

PROJECTS

Taglish-Capable Sentiment Analysis Model

Skills: Prompt Engineering, PyTorch, tensorflow, HuggingFace

- Generated a synthetic Taglish sentiment dataset via Gemini to address low-resource data.
- Fine-tuned an XLM-R model with LoRA to classify sentiment in Filipino code-switching text as a part of a RAG pipeline for Clinical Assistive Tool

National Budget Transparency App *(Top 5 - InnOlympics 2025)*

Skills: Data Visualization, Flutter, Firebase, AI Integration

- Co-built a full-stack Philippine budget transparency platform that converts static DBM PDF releases into searchable, interactive views by agency, region, and year.
- Integrated a Gemini-powered chatbot that explains graphs in plain Filipino/English, lowering the barrier for non-technical users to understand national budget allocations.

Alternative Metrics Model for Loan Eligibility *(3rd Place BPI DATAWave 2024 - ML Track)*

Skills: Data Visualization, Machine Learning, Financial Inclusion

- Designed an Isolation Forest–based credit risk model for underserved MSMEs in agriculture and fisheries using alternative data (socioeconomic indicators, behavioral patterns, regional competitiveness).
- Achieved **98%** accuracy on test and validation data

Project SBAFN: Street-Based Flood-Proneness Mapping for Manila City

Skills: Geospatial Analysis, OSMx / DEM, Data Visualization, Flutter, Firebase, Python

- Built a pipeline that ingests street-level images (Mapillary) and uses YOLO-based object detection to identify cues like drainage infrastructure, road conditions, debris, and visible watermarks.
- Deployed an interactive map interface for planners and LGUs to quickly spot high-risk streets, prioritize drainage upgrades, and plan safer evacuation routes in dense urban areas.

CERTIFICATIONS

Prompt Engineering Specialization - Vanderbilt University *(via Coursera)* *Issued Dec 2025*

Specialized Models: Time Series and Survival Analysis - IBM *(Certificate of Completion)* *Issued June 2025*

TECHNICAL SKILLS

Programming Languages:	Python, Dart, SQL, R
Data Science:	PyTorch, TensorFlow, Pandas, scikit-learn, Power BI, Matplotlib
Developer Tools:	Git, Github, HuggingFace, Visual Studio Code, Jupyter Notebook, Codex