

# Rainzle John M. Estuesta

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## EDUCATION

### Manuel S. Enverga University Foundation

Bachelor of Science in Computer Science with specialization in Data Science

2022 - 2026

Lucena City, Quezon

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

- Academic Scholar
- Consistent Dean's Lister

## HACKATHONS & ACHIEVEMENTS

- |                                |  |
|--------------------------------|--|
| • <b>1<sup>st</sup> Place:</b> | Cyber Fest Hackathon Competition, MSEUF CCMS (2024)                        |
| • <b>2<sup>nd</sup> Place:</b> | Cyberweek 2025: Day 1 – Prototype Output Demonstration, MSEUF CCMS (2025)  |
| • <b>3<sup>RD</sup> Place:</b> | BPI DATAWave National Hackathon – Machine Learning Track (2024)            |
| • <b>Top 5:</b>                | InnOlympics 2025, National Hackathon, GDSC – PLM × ING (2025)              |
| • <b>Rank 3:</b>               | BSCS Program Recognition Award (1 <sup>st</sup> Semester, A.Y 2024 – 2025) |
| • <b>Participant:</b>          | SIKAPtala National Hackathon, DLSU-D CICS (2025)                           |
| • <b>Participant:</b>          | ASEAN Data Science Explorers (2025)  |
| • <b>Participant:</b>          | 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 (3<sup>rd</sup> 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 for ChatGPT – Vanderbilt University (Certificate of Completion)

Issued March 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