

Gerwin Dogui-is

gerwindoguiis.gd@gmail.com | <https://gerwindoguiis.com/> | github.com/GerwinDoguiis | Baguio City, Philippines

Skills

Languages: Python, Java, MySQL, HTML, CSS, JavaScript, ReactJS, PHP

Technologies: n8n, Docker, Git, Bootstrap, Power BI, Power Apps, Power Automate, SharePoint

Machine Learning: NLP, TensorFlow, BERT, scikit-learn, XGBoost, Random Forest, Logistic Regression

Experience

IT Intern (Remote), The Credit Pros

June 2024 – December 2024

- Developed an automated performance review system for 100+ employees by designing a normalized database schema across 3 SharePoint lists, implementing weighted scoring calculations for 5 performance categories in Power Apps, and configuring Power Automate workflows with conditional email notifications, eliminating manual spreadsheet processes

Projects

Student Stress and Depression Prediction Model

github.com/GerwinDoguiis/stress-depression-prediction

- Reached 90% classification accuracy predicting student stress levels by training and comparing Logistic Regression, Random Forest, and XGBoost models on 1,200 samples, identifying sleep quality and campus safety as primary predictors among 6 key features

Windows 97 Interactive Portfolio

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- Built a Windows 97-style portfolio with a full window management system by implementing custom drag-and-drop mechanics with boundary detection, z-index reordering on focus events, minimize/maximize/close controls, and a responsive mobile layout, demonstrating advanced DOM manipulation and event handling using JavaScript.

Receipt Data Extraction and Inventory Automation

github.com/GerwinDoguiis/receipt-automation

- Cut manual inventory entry time by 3 hours weekly and decreased errors by 15% through an n8n workflow integrating OpenAI Vision API to extract structured JSON from receipt images and automatically populate Google Sheets inventory logs

SEO Content Automation Workflow

github.com/GerwinDoguiis/SEO-Content-Automation

- Engineered an automatic pipeline extracting client information and SEO keywords from Google Sheets, processing 60+ business data points and 100+ keywords using custom JavaScript standardization logic
- Architected a scalable multi-client Airtable database with a normalized schema and relational tables, enabling efficient client-keyword linking while preventing duplication
- Reduced manual SEO entry time by 95% (from 5+ hours to 2 minutes) through end-to-end automation handling extraction, transformation, storage, and CMS payload generation

Suicide Ideation Detection Using NLP

- Reached 90% accuracy detecting suicide ideation in social media text by fine-tuning a BERT model with TensorFlow on 3,600 samples, enabling early mental health intervention through machine-controlled content analysis
- Research featured at 16th National eLearning Conference (NELC 2024)

AI vs Human Text Similarity Analysis

- Distinguished AI-generated from human-written content across 1,000+ text samples by implementing SpaCy, SBERT, and Jaccard similarity metrics, reaching 90% classification accuracy

Education

Saint Louis University – BS in Computer Science

August 2021 – May 2025

Graduated Cum Laude

Consistent Dean's Lister