# Kenaniah Gonzales, PSM I

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## Education

**Polytechnic University of the Philippines**
*Bachelor of Science in Industrial Engineering, October 2023*
- Consistent President's Lister (2019-2023)
- Feasibility Research: Devised a deployable prototype of a Computer Vision (Face Detection and Face Recognition) Artificial Intelligence Software using Python, and SQLite3
- Capstone Research: Created a working prototype of a project deployment tracking tool using VBA.

## Experience

**DXC Technology**
*Business Analyst II (Mid-Senior)*                                      **November 2023 – Present**
- Design, develop, and implement AI-driven solutions, using NLP, and LLMs (including fine-tuning and building AI agents), while integrating scalable and high-performance ML algorithms into production systems to increase efficiency in business operations.
- Designing, implementing, and managing CI/CD pipelines in Azure DevOps for Azure Databricks workloads, incorporating automated deployment strategies, version control with Git, and infrastructure-as-code (IaC) principles.
- Developing and optimizing SQL, NoSQL, and Python scripts for data engineering and ETL processes.
- Developing and maintaining Power BI dashboards, optimizing DAX code for performance, while collaborating with cross-functional teams and other developers to ensure effective data visualization and reporting solutions.
- Designing and developing production-grade software and automation tools to optimize business operations using Power Apps, Power Automate, and Python. Responsible for overseeing User Acceptance Testing (UAT) to validate functionality and ensure alignment with business requirements. Additionally, creating detailed user documentation and training materials to facilitate seamless deployment, adoption, and operational efficiency of delivered solutions.
- Leading and facilitating Scrum and Kanban activities to drive the successful execution of projects. Additionally, responsible for managing User Acceptance Testing (UAT) and creating comprehensive user documentation to ensure seamless deployment, adoption, and operational efficiency of delivered solutions.
- Conducting descriptive and predictive analyses to drive data-informed project proposals and decision-making. Developed python-powered jupyter notebook reports and VBA automated reports across areas including billability, finance, and resource utilization.
- Deployed the *Project Dragonfly Migration Plan*, a data engineering project I proposed and led where our team engineered all four (4) ETL pipelines in business operations using Python, Azure SQL, and GIT. Handled various data sources (XML, JSON, PDFs, CSV types, Sharepoint Sites, SQL Databases) and ultimately achieving a 94.5% increase in the lead time of analysis and report generation as we transition from our traditional pipeline.
- Developed and deployed *ScrumBan* using Power Apps, an application I proposed to streamline Scrum activities in business operations. The tool remains actively utilized and is recognized as a best practice, driving increased productivity, and enabling the team to exceed deliverables in the fiscal year-end performance review. Fostered a culture of efficiency and productivity across business operations.
- Developed and deployed a fine-tuned sentiment analysis machine learning model with an F1-score of 0.86 on an SVM Classifier, A project I designed to analyze text data from a critical gold source. This implementation significantly reduced the lead time for text analysis in business operations.

**Studypool Tutor Services**
*Academic Tutor (Part-time)*                                      **March 2022 – September 2023**
- Assisted clients (International-based) across various topics—particularly Machine Learning, Python, and SQL—as well as C++ and VBA.

**DynaV Construction Corporation**
*Software Developer (Internship)*                                                    **July 2022 – December 2022**

- Accomplished in developing the *DynaV IMAS*—an Inventory Management and Analysis Software, significantly enhancing the deployment of electrical projects, from building electrical posts to road construction—using MS SQL Server and VBA.
- Honored with a certificate of recognition for valuable contributions.

# Projects

Attentiface 1.0: A Facial Recognition Software for Attendance Tracking and Payroll Management Using A Custom-trained Haarcascade Classifier and a Local Binary Pattern Histogram Recognizer

- Attentiface 1.0 is a facial recognition software developed to automate attendance tracking and payroll management. As part of my college feasibility study, the software incorporates two computer vision models: one for face detection and another for face recognition. The face detection model, trained using the Haarcascade algorithm, provides fast and robust detection even in semi-dark environments. Additionally, the face recognition model utilizes the LBPH algorithm, which is sensitive to varying light conditions, ensuring reliable performance even in poorly lit areas.

English-to-Italian Translation Model Using a Custom-built Transformer from scratch in Pytorch

- Successfully implemented the original Transformer architecture as described in the "Attention is All You Need" paper. Developed a deep learning model in capable of handling English to Italian language translation tasks, demonstrating high accuracy in validation using the Helsinki-NLP/opus-mt-en-it dataset from Hugging Face.

RAG-powered-pdf-Chatbot-using-Ollama

- Built a document-aware RAG chatbot using Streamlit and Ollama, fine-tuning the Mistral model to handle specific use-case questions based on uploaded PDF documents.

# Certifications

- Professional Scrum Master I (*Scrum.Org*)
- Certified Machine Learning Practitioner *(IBM Developer Skills Network)*
- CI/CD in Azure Databricks using Azure DevOps *(Udemy)*
- Microsoft Certified: Power BI Data Analyst Associate (*Microsoft*)
- Certified Tableau Desktop Qualified Associate (*Great Learning Academy*)
- Certified Lean Six Sigma White Belter *(Ask Lex PH Academy)*

# Skills

- Agile, Scrum, Kanban, Software Development Life Cycle, UAT
- Python, SQL, C++, HTML, CSS, Javascript, VBA
- MS SQL Server, MySQL, PostgreSQL, SQLite, SQLAlchemy
- NumPy, Pandas, PySpark, Matplotlib, Seaborn, SciPy, Scikit-Learn, Pytorch, Tensorflow, Keras, OpenCV, mediapipe
- Power BI, Tableau
- Azure Databricks, Azure DevOps
- Git
- Power Apps, Power Automate
- Jupyter Notebook, Anaconda, Google Colab, VSCode, Pycharm
- Machine Learning, NLP, LLM, Computer Vision