Joshua Nathaniel Villanueva

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# Education

* B.S. in Computer Engineering – Mapúa University, 2020
* Graduated with Distinction
* President, Data Science Student Society

# Certifications

* Google Cloud Professional Data Engineer
* PyTorch Developer Certificate
* Databricks Lakehouse Fundamentals

# Skills

Python, PyTorch, TensorFlow, scikit-learn, SQL, Spark, Docker, Kubernetes, Data Engineering, Machine Learning

# Experience

* AI/ML Engineer | DeepCore Analytics | 2022–Present
* Increased document retrieval accuracy by 28% by implementing a Retrieval-Augmented Generation (RAG) pipeline for legal case search.
* Improved system latency by 40% by containerizing ML services with Docker and deploying via Kubernetes clusters.
* Reduced annotation time by 20% by building semi-supervised labeling tools with active learning strategies.
* Data Scientist | SmartEdge PH | 2021–2022
* Detected 95% of fraudulent transactions by designing anomaly detection models on large-scale financial datasets.
* Reduced ETL time by 60% when processing 50M+ transaction records by leveraging Spark.
* Prevented 10% of fraudulent claims through actionable insights presented to the compliance team.
* Python Developer | ByteForge Solutions | 2020–2021
* Automated 80% of repetitive data preprocessing, saving an average of 25 staff hours monthly.
* Built reusable Python libraries that were adopted by 3 internal teams, improving project delivery efficiency.
* Optimized analytics scripts to run 30% faster by restructuring data pipelines and applying vectorized operations.