

Truong Giang Nguyen

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SUMMARY

Machine Learning Engineer with 4+ years of experience designing, building, and deploying impactful AI solutions across retail, e-commerce, and healthcare. Proven expertise in NLP (LLM fine-tuning, RAG, chatbots), Computer Vision, and anomaly detection. Skilled in developing end-to-end ML pipelines on cloud platforms (AWS, Google Cloud) and proficient in Python, SQL, TensorFlow, and PyTorch. Eager to leverage diverse AI/ML skills to drive innovation and business value.

WORK EXPERIENCE

AI Engineer	Seedcom R&D, Vietnam (Remote)	Nov 2020 - Oct 2024
Developing AI-Powered Solutions for Retail and E-Commerce.		
<ul style="list-style-type: none">Engineered a Vietnamese recipe recommendation system combining Retrieval-Augmented Generation (RAG) and chatbot, utilizing users' basket history to provide tailored culinary suggestions and enhance user engagement.Designed, built, and automated end-to-end Machine Learning pipelines on Google Vertex AI for tasks like competitor price mapping, utilizing CI/CD practices (GitLab CI, Airflow) for robust, automated deployment and achieving 95% accuracy.Developed and deployed a personalized notification system leveraging LLM fine-tuning (LoRA), managing the deployment process via automated CI/CD pipelines (GitLab CI, Airflow) to ensure resilience and scalability, significantly increasing user retention.		
Data Scientist	Northumbria University, UK	Jan 2023 - July 2023
Researching and Developing Solutions for Parkinson's Disease Treatment		
<ul style="list-style-type: none">Utilized statistical methods and built predictive machine learning models (random forests, logistic regression) in Python to analyse the effectiveness of wearable/smartphone cues for drooling treatment in Parkinson's Disease patients.Developed a personalized treatment schedule prediction system using AWS SageMaker, achieving 65% accuracy (F1-score) in predicting optimal cue usage times, incorporating model selection and hyperparameter tuning techniques.Implemented data pipelines with AWS Glue and S3 for processing and validating large-scale sensor data (1,000+ sensors) from 1,600 Parkinson's Disease patients, ensuring data integrity via thorough checks.		
Machine Learning Engineer	Emage Development Pte. Ltd., Vietnam	Jul 2019 - Jul 2020
Building and Deploying Computer Vision Solutions for Defect Detection		
<ul style="list-style-type: none">Developed and deployed a high-availability ML model for defective semiconductor detection using TensorFlow and OpenCV, leveraging AWS EC2 for cloud deployment and Docker for containerization.Successfully deployed the ML model onto factory floor computers, optimizing it for low-latency inference (0.2 sec/image) and demonstrating experience with edge/on-premise deployment scenarios.		

TECHNICAL SKILLS

<ul style="list-style-type: none">Programming Languages: Python, R, C++, C#, MATLAB, SQLCloud Platforms: AWS, Google Cloud	<ul style="list-style-type: none">Frameworks & Libraries: TensorFlow, PyTorch, Scikit-learn, OpenCV, Pandas, Spacy.Tools: Git, BigQuery, UNIX
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PROJECT EXPERIENCE

Large Language Model Fine-Tuning for Medical Text Summarization	2024
<ul style="list-style-type: none">Leveraged Low-Rank Adaptation (LoRA) and deep learning optimizers to efficiently fine-tune Large Language Models for summarizing doctor-patient conversations, improving accuracy threefold.Implemented model parallelism for distributed training across multi-GPU setups, significantly reducing processing time and optimizing resource utilization.	
Retrieval-Augmented Generation (RAG) Agent with Llama & LangGraph	2023
<ul style="list-style-type: none">Developed an advanced RAG agent utilizing Llama3 and LangGraph, integrating vector embeddings for efficient knowledge retrieval from external sources to enhance question-answering capabilities.Implemented sophisticated agentic logic including routing, web search integration, and self-correction mechanisms to improve response accuracy and mitigate hallucination.	

EDUCATION

Northumbria University, UK	Jan 2022 – July 2023
Master of Science (MSc) in Data Science (Distinction)	
<ul style="list-style-type: none">Dissertation topic: Assessing the Effectiveness of Wearable and Smartphone Cues for Drooling in Parkinson's.	
Ho Chi Minh City University of Technology, Vietnam	Sep 2015 – Jun 2020
Bachelor of Engineering (BEng) in Electrical and Electronic (2.1)	
<ul style="list-style-type: none">Thesis topic: Apply Generative Adversarial Networks (GANs) to Image Super-Resolution.	