


Ethan Velasco

AI/ML Engineer

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PROFESSIONAL SUMMARY

Experienced AI/ML Engineer with 10+ years of expertise in developing and deploying machine learning models across various industries. Specialized in Computer Vision, Speech Processing (TTS, STT, Diarization), Large Language Models (Chatbots, Video Bots, Voice Bots), and Full Stack Development. Proven track record of building scalable AI solutions that solve real-world problems, with experience working at leading technology companies in both the Philippines and the United States. Currently seeking new opportunities to contribute to impactful AI projects and collaborate with forward-thinking teams.

WORK EXPERIENCE

Senior AI/ML Engineer

2022 - Present

Applied Intuition

Mountain View, USA

- Led development of AI simulation models for autonomous vehicle testing, improving simulation accuracy to 97.88% NFR (Normalized Failure Rate)
- Architected scalable ML pipelines for computer vision systems processing millions of images daily
- Developed video analytics bots using LLMs for real-time vehicle behavior analysis
- Collaborated with cross-functional teams to deploy models to production, reducing deployment time by 35%

AI/ML Engineer

2020 - 2022

Uniphore

Palo Alto, USA

- Developed speech recognition systems achieving 96.42% transcription accuracy in noisy environments
- Built conversational AI chatbots and voice bots using LLMs, increasing customer engagement by 42.15%
- Implemented speaker diarization systems with 94.67% accuracy for multi-speaker conversations
- Optimized TTS (Text-to-Speech) models reducing latency by 58.33% while maintaining natural speech quality

Machine Learning Engineer

2017 - 2020

Thinking Machines Data Science

Makati, Philippines

- Developed AI-powered data science solutions for enterprise clients, achieving 92.45% model accuracy
- Built full stack web application with React frontend and Python Flask backend for data analytics platforms
- Implemented NLP models for document processing achieving 88.67% entity extraction accuracy
- Created chatbot systems for client services, reducing response time by 41.23%

Junior ML Engineer

2016 - 2017

Visaya KPO

Makati, Philippines

- Developed speech-to-text (STT) systems for call center applications with 92.18% accuracy
- Built customer service chatbots reducing average handling time by 28.45%
- Implemented sentiment analysis models for customer feedback with 87.63% accuracy
- Assisted in deploying ML models to cloud infrastructure using AWS services

EDUCATION

Master of Science in Computer Science

2014 - 2016

Ateneo de Manila University

Manila, Philippines

Advanced studies in deep learning, speech processing, and large language models. Thesis on "Neural Speech Recognition Systems for Low-Resource Languages".

Bachelor of Science in Computer Science

2010 - 2014

University of the Philippines Diliman

Quezon City, Philippines

Specialized in Artificial Intelligence and Machine Learning. Graduated Magna Cum Laude with focus on neural networks, computer vision, and natural language processing.

TECHNICAL SKILLS

Programming Languages

Python

JavaScript

TypeScript

Java

SQL

C++

HTML/CSS

AI/ML Frameworks

TensorFlow

PyTorch

Keras

Hugging Face

Scikit-learn

OpenCV

Transformers

Speech Processing

Text-to-Speech (TTS)

Speech-to-Text (STT)

Speaker Diarization

Voice Activity Detection

Speech Synthesis

Large Language Models

Chatbots

Video Bots

Voice Bots

GPT Models

BERT

LLM Fine-tuning

Full Stack Development

React

Node.js

Express

Django

Flask

PostgreSQL

MongoDB

REST APIs

Technologies & Tools

Docker

Kubernetes

AWS

Azure

GCP

Git

MLflow

Airflow

KEY ACHIEVEMENTS

- Led development of AI simulation models achieving 97.88% NFR accuracy for autonomous vehicle testing
- Developed speech recognition systems with 96.42% accuracy in noisy environments
- Built LLM-based chatbots increasing customer engagement by 42.15%
- Implemented speaker diarization systems with 94.67% accuracy
- Optimized TTS models reducing latency by 58.33%
- Created full stack applications reducing response times by 41.23%
- Completed 50+ AI/ML projects across 4 companies