Le Duc Anh Tuan

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EDUCATION

- **Hanoi University of Science and Technology** — Hanoi, Vietnam
  Bachelor of Science in Data Science and Artificial Intelligence — Oct. 2020 - Aug. 2024
  - **Thesis**: Efficient Class Incremental Learning for Object Detection

PUBLICATIONS

- **3DNeRV (Passed Phase 1, AAAI 2024)**: A Cube-wise Neural Representation for Videos
- **Speechless (Under Review, Interspeech 2025)**: Speech Instruction Training Without Speech for Low Resource Languages
- **Poseless**: Depth-Free Vision-to-Joint Control via Direct Image Mapping with Vision Language Model

EXPERIENCE

- **Menlo Research (Homebrew)** — Singapore, Singapore
  LLM Researcher — Nov. 2024 - Mar. 2025
  - **Ichigo-ASR**: Trained Speech Tokenizer to support multiple Asian languages, achieving SOTA results on viVoice and LibriTTS-R
  - **Ichigo Ecosystem**: Developed developer-focused speech package, provides easy access to advanced speech models via API, simplifying audio processing for faster deployment

- **Viettel Group** — Hanoi, Vietnam
  Digital Talent — Apr. 2024 - Nov. 2024
  - **Conversational AI**: Developed a real-time, end-to-end "zero-touch" universal AI assistant with a multimodal multi-agent system, multimodal capabilities, personalized responses and creating Vietnam's first multimodal CRS

- **Google Developer Groups** — Hanoi, Vietnam
  Organizer — Sep. 2022 - Aug. 2024
  - **Leadership**: Planned and created project blueprints, delegated tasks to individuals, connected teams, and provided future operational guidance, certified by Google's Global Headquarters

- **VinBrain (NVIDIA)** — Hanoi, Vietnam
  Applied Scientist — Sep. 2023 - Dec. 2023
  - **Medical Image Segmentation**: Developed MedNeXt for rectal cancer diagnosis and treatment support

- **Data Science Laboratory** — Hanoi, Vietnam
  Research Assistant — Oct. 2021 - Sep. 2023
  - **Continual Learning**: Researched class-specific prompt rehearsal-free in continual object detection

- **Viettel High Tech** — Hanoi, Vietnam
  Computer Vision Researcher — Mar. 2023 - Aug. 2023
  - **Video Compression**: Researched INRs for videos, resolved temporal information problem in previous NeRV-based methods, achieved SOTA results for video reconstruction and compression tasks

- **LEAN Platform** — Southeast Asia
  Machine Learning Researcher — Aug. 2022 - Jan. 2023
  - **Action Detection**: Developed real-time Conv3D model for concentration recognition in online self-learning platform with 10000 users

PROJECTS

- **Detect Cheating in Examination**: Researched and deployed real-time cheating detection solution using Pose3D and VideoMAE for 100-person exam rooms; featured on VTV24, DanTri, HUST, etc.
- **Gemini Omni**: Developed a real-time web application showcased at Google I/O Extended Hanoi 2024, featuring speech-to-speech, multimodal integration for Vietnamese, and RAG for live updates
- **Google I/O Extended Website**: Designed front-end UI client and backend admin websites and deployed hosting

Skills

- **Areas of Interest**: Multimodal/Reasoning LLMs, Multi-agent Systems, LLMOps
- **Programming Language**: Python, SQL, Java, C++, CUDA, TypeScripts, Javascripts, Triton
- **MLOps**: GitHub, WandB, Docker, Kubernetes, MLflow, Airflow, Langchain, LangGraph, Weaviate, FastAPI
- **Framework**: PyTorch, TensorFlow, Hugging Face, ONXX
- **Language**: English, Vietnamese

Certificates

- **Vietnamese Standardized Test of English Proficiency**   2024-2026
  - **Level**: B2

Achievements

- **Top 1,** Viettel Digital Talent 2024 (Data Science & Artificial Intelligence)
- **Third Prize,** Excellent Students Contest in Math 2019 (Provincial Merit Competition)
- **Winner,** Innovation Lab Asia CrowdPitch
- **Best Incubatee,** TechYouth (VinUniversity)
- **CCMG Grantee,** Cyberport (2nd largest incubator in Hongkong with 5 unicorns)
- **Top 1,** X-Challenge by VCCorp
- **Top 1,** Prometheus in digital transformation by European Union (out of 4000 teams)
- **Top 1,** Business Challenge 6 by Vietnam National University
- **Top 5,** Youth Impact Entrepreneurs by PNJ (VN30 Index)
- **Top 6,** Hult Prize Asia Summit 2022 (out of 1000 teams)
- **Top 20,** University Startup World Cup (out of 5000 teams)
- **Top 30,** Moonshot Global (out of 3000 teams)
- **Top 100,** XPITCH global (out of 4000 teams)

Volunteering

- **Google Developer Groups Hanoi**: Speaker presents "Detecting Cheating in Examinations" at DevFest 2022
- **SheCodes Vietnam**: AI Mentor of SheCodes Hackathon Hanoi 2023
- **Nestlé**: Ambassador of MT SparkTheNext Leaders Program 2023 & 2024
- **AIESEC**: Representative of Mini Leadership Conference 2022
- **VinAI Research**: Technical Collaborator at AI Day 2022