

Doan Ngoc Cuong

Intern Data Science and AI



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🎓 EDUCATION

2021 – present
Hanoi, Việt Nam

**Information and Communication Technology School - Hanoi
University of Science and Technology**

- Major Data Science and AI (pass recruiting talent combined with interviews 2021)
- CPA in 5 periods: 2.9

2018 – 2021
Thai Binh, Việt Nam

Specializes in Mathematics, Thai Binh High School for Gifted Students

- Vallet Scholarship of Vietnam Academy of Sciences 2019-2020
- Participated in the National Math Excellent Student Competition VMO twice in the 2019-2020 and 2020-2021

👜 PROFESSIONAL EXPERIENCE

2024 August –
present

Internship at NLP Lab - HUST, AI Intern

Practice with the problem: RAG (Retrieval Augmented Generation) -
Improve Chunking technique

2024 June – present
HaNoi, Vietnam

STEP UP EDUCATION, AI Intern ✉

- Prompting for tasks related to Content generation, Image generation, and Video generation
- Packaging AI tools through calling API reference. Output 1 series 5-6 Web Apps AI applications, Prompting for IELTS Content: App The Coach and IELTS Web The Coach, Prompting Robot, Benchmark and Evaluation Dataset for RAG, LLMs problem and Build RAG, LLMs applications.
- RAG Chatbot for the Customer Service Department's internal Q&A, Embedded Chatbot on OpenSource Dify
- AI Agents and Workflow for Robot's Response on physical Robot products - Robot Pika Step Up English.

2023 June – present
Hanoi, Việt Nam

MINDX TECHNOLOGY SCHOOL, Teaching Assistant ✉

- Teaching Python

2023 June – present
Hanoi, Việt Nam

CODE MELY, AI Tech

- Projects: ROAD NAME SIGNS DETECTION AND RECOGNITION
- Competitions: UnetPlusPlus_resnext101_model for Segment vasculature in 3D in Kaggle Competitions
- NLP SubLeader in Code Mely Team

2021 March –
2021 August

Teaching Math for 10th grade entrance exam preparation and Teaching Math For The National HSG Examination VMO

- One student passed the entrance exam for the Physics major at HUS High School for Gifted Students, and one student passed the entrance exam for the Informatics major at Hanoi-Amsterdam High School.
- The student won third prize in the National Math Excellent Student Contest VMO and also directly admitted to the Data Science and AI major at HUST

PROJECTS

2023 February –
2023 July

BITCOIN PREDICTION, MiniProj_ML&Sta_2022.2_HUST

Machine Learning Models: Linear Regression, SVM, KNN, RF, ADaboost, Catboost, XGBoost, LightGBM, ARIMA, GAN, GRU, LSTM

2023 September –
2023 November

ROAD NAME SIGNS DETECTION AND RECOGNITION PROJECT_CODEMELY PROJECT, Train model Detect signs using Yolov8, train model Segment text and Regconize text using PaddleOCR

Train model Detect signs using Yolov8, train model Segment text and Regconize text using PaddleOCR

2023 November –
2024 January

UnetPlusPlus_resnext101_model for Segment vasculature in 3D, in Kaggle Competitions with CODEMELY team

Unet, UnetPlusPlus,
Backbone: Resnet34, Resnet50, Resnet101, Resnet152, Resnext50, Resnext101, ...

2024 January

Road Extraction from satellite images, Freelancer Job

Train model DeepLearning use Deep ResUnet and (Deep) ResUnet++ on Massachusetts Buildings Dataset.

2023 November –
2024 January

GOLD PRICE PREDICTION, MiniProject for Data Science Course, at 2023.1 term, HUST

2023 November –
2024 January

FACE DETECTION AND RECOGNITION, MiniProject for Deep Learning Course, at 2023.1 term, HUST

Face Detection Alignment Models: Yolov5, ADNet with STARloss, VGG16, MTCNN. Face Verification Models: ArcFace, Triplet/Inceptionv2.

2024 March – present

Mini RAG SYSTEM for CODEMELY Team, chatbot

Technology Used: Llama_index, Langchain, Embedding Model, LLMs Model, Prompting, Hugging Face, Quantization technique, LlamaParse technique.


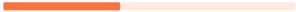
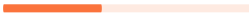
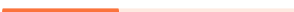
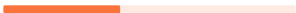
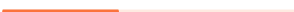

2024 May – present

Machine Translation, MiniProject for Data Science Course, at 2023.2 term, HUST

Use mBART, T5 models.

2024 May – present	NO-CODE Chatbot "Doan Ngoc Cuong Assistant", https://www.facebook.com/profile.php?id=61560584582418 Creating a personal VIRTUAL ASSISTANT - trained from my text message data with friends, from there it learns my texting style.
2024 – present	NO-CODE chatbot "GOSINGA_bot" Making a RAG No-Code chatbot for the non-profit educational organization GOSINGA
2024 December – 2025 January	Train small model: Intent Classification use XLM-RoBERTa, ... Intent Classification is mapped with Fast Response of the Pika Robot (before the main answer from the LLMs is provided).

SKILLS

Programming: Python		AI Web Builder: HTML, CSS, ReAct, NextJS, Docker	
Libraries/ frameworks: Seaborn, Matplotlib, SciKit-Learn, OpenCV, Pytorch, albugmentations, segmentation_models_p ytorch, ...		Build some FullStack AI Apps: https://github.com/DoanNgocCuong	
Deep Learning Models: CNN, RNN, GNN, Unet, UnetPlusPlus, Yolo, PaddleOCR,		Machine Learning Models: Linear Regression, SVM, KNN, RF, ADaboost, Catboost, XGBoost, LightGBM, ARIMA, GAN, GRU, LSTM	
English: B1 - 5.5		NLP&LLMs HuggingFace, Llama_index, Langchain, LLMs, Prompting, Quantization technique, LlamaParse, RAG, Finetuning small Models	

ORGANIZATIONS

2021 – present	Bach Khoa Training Institute BKE - Decent living community GNH, Members and Volunteer
2022	Community Campaign, Volunteer
2022 – present	Volunteer Team October 1985 Student Association of Hanoi University of Science and Technology, Volunteer
2023 April – present	Educational organization - Non-profit meditation center GOSINGA, Meditator
2022 May – present Hanoi, Vietnam	Code Mely, AI Technical SubLead on AI Team IT Gen Z Community: Code Mely - Group: "Dev ơi, mình đi đâu thế!"
2025 February – present Hanoi, Vietnam	Wecommit100x, Member at Wecommit100x Performance Database Optimization Community, with many tech enthusiasts from various fields and specialties, sharing and meeting offline weekly, writing articles, and sharing technology.