Doan Ngoc Cuong
Intern Data Science and AI

✉ cuong.dn210141@sis.hust.edu.vn

📞 0392661380

📍 Hanoi, Vietnam

📅 2003 May 02

🐙 https://github.com/DoanNgocCuong/

in linkedin.com/in/doan-ngoc-cuong

f https://www.facebook.com/doanngoccuong.nhathuong

M cuongmkmtpgoldfinch@gmail.com

🎓 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
- Competitions: SoICT Hackathon 2024 - NAVER: Legal Document Retrieval, ranked top 39. (AI Code Mely Team)
- NLP, AI Technical SubLeader in the AI Team Code Mely, starting from July 2024.

**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.
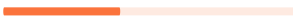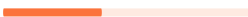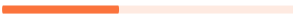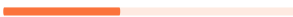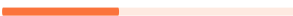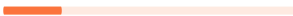
**2024 March – present**

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).
2024 December – 2025 January	**Open Web UI - Integrated with Qdant - RAG Chatbot** ⧉ Integrating QDant with Open Web UI; additionally, FlashRAG and RAG built with Langchain, and more.

🧠 SKILLS

Programming:
Python

Libraries/ frameworks:
Seaborn, Matplotlib,
SciKit-Learn, OpenCV,
Pytorch,
albumentations,
segmentation_models_p
ytorch, ...

Deep Learning
Models: CNN, RNN,
GNN, Unet,
UnetPlusPlus, Yolo,
PaddleOCR,

English: B1 - 5.5

AI Web Builder:
HTML, CSS, ReAct,
NextJS, Docker
Build some FullStack AI Apps:
https://github.com/DoanNgocCuong ⧉

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

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. |