Doan Ngoc Cuong
Intern Data Science and AI

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📅 2003 May 02

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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)
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

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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
2021 March – 2021 August	**Teaching Math For The National HSG Examination VMO** • 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
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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

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

🧠 SKILLS

Programming:
Python, Java, HTML

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

English: B1

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

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

NLP&LLMs
HuggingFace, Llama_index, Langchain, LLMs, Prompting, Quantization technique, LlamaParse

🏠 ORGANIZATIONS

2022 – present	**Volunteer Team October 1985 Student Association of Hanoi University of Science and Technology, Volunteer** ☑
2021 – present	**Bach Khoa Training Institute BKE - Decent living community GNH, Members and Volunteer** ☑
2022	**Community Campaign, Volunteer** ☑
2023 April – present	**Educational organization - Non-profit meditation center GOSINGA, Meditator**