

# Doan Ngoc Cuong

## *Intern Data Science and AI*

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**Organizing Committee of Summer School on GenAI 2024**  
Ha Noi and Hoa Binh

Dear Organizing Committee,

I am extremely eager to participate in the Summer School on Generative AI 2024, organized by Hanoi University of Science and Technology. This program represents a wonderful opportunity for me to learn from my peers, esteemed professors, and leading experts in the field. I am passionate about the chance to immerse myself in this enriching environment, and I am convinced that this experience will be invaluable for my academic and professional development.

My academic journey and professional experiences have equipped me with a solid foundation in AI and Data Science. I am currently pursuing a major in Data Science and AI at the Information and Communication Technology School, where I have been involved in various projects that align closely with the themes of the Summer School. Some of my notable projects include:

1. Bitcoin Price Prediction: Developed and implemented machine learning models such as Linear Regression, SVM, KNN, RF, ADaboost, Catboost, XGBoost, LightGBM, ARIMA, GAN, GRU, and LSTM to predict Bitcoin prices.
2. Road Name Signs Detection and Recognition: Trained models to detect road signs using YOLOv8 and recognize text using PaddleOCR at CODE MELY.
3. Face Detection and Recognition: Implemented face detection and alignment models and face verification using YOLOv5, ADNet, VGG16, MTCNN, ArcFace, and Triplet/Inceptionv2.
4. Machine Translation: Developed machine translation models using mBART and T5 as part of a Data Science course mini project.
5. RAG Chatbot: Currently developing a Retrieval-Augmented Generation chatbot using Llama\_index, Langchain, LLMs, and embedding models to enhance performance at CODE MELY.
6. No-Code Chatbots: Created a personal virtual assistant "Doan Ngoc Cuong Assistant" and a RAG no-code chatbot for the non-profit educational organization GOSINGA.

These experiences have not only honed my technical skills but also fostered a meticulous approach to problem-solving, project management, and teamwork. I am particularly excited about the diverse topics covered in the Summer School, such as Multimodal Learning, Large Language Models, and Diffusion Models, as they resonate with my academic interests and future career goals.

My role as a teaching assistant at MindX Technology School, where I teach Python, has also enhanced my ability to convey complex concepts effectively and work collaboratively. Additionally, my participation in volunteer activities and organizations such as the October 1985 Student Association and GOSINGA has developed my interpersonal skills and community engagement.

I am confident that the Summer School on Generative AI will provide me with an invaluable opportunity to deepen my knowledge, gain new insights, and collaborate with experts and peers who share my passion for advancing the field of AI. I am eager to contribute my skills and enthusiasm to the program and look forward to the chance to be part of this prestigious event.

Thank you for considering my application. I am looking forward to hearing from you.

Best regards,

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