

# TRAN NGUYEN NHUT DUY

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## SUMMARY

Data and AI professional with proven experience in data analytics, business intelligence, and machine learning. Nearly 1 years of hands-on experience conducting data analysis, building analytical solutions, and delivering data-driven insights. Demonstrated expertise in Excel, SQL, Python, and visualization tools with a strong track record of translating business requirements into actionable solutions. Experienced in stakeholder collaboration and communicating complex findings to non-technical audiences.

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## WORK EXPERIENCE

### AI Engineer/Data Analyst, Main Game Jun 2024 - Present

- Work with LLMs, craft effective prompts, and research AI techniques tailored to enhance product functions.
- Analyzed large-scale user behavior data using SQL and Excel to improve product engagement metrics by 5%.
- Create automation report by Python and Streamlit.
- Developed data pipelines for processing and analyzing user interaction patterns.
- Conducted A/B testing and statistical analysis to optimize product features.

### Freelancer AI Engineer, Upwork Feb 2022 - Present

- I independently pursue clients and manage projects in Computer Vision and Natural Language Processing
- With a focus on technical excellence and strategic collaboration, I deliver customized solutions to meet client objectives.
- Add metrics about successful deployments and include examples of documentation created

### AI Engineer Internship, Pythera AI Feb 2020 - Jan 2021

- Have acquired valuable experience in processing NLP models and datasets
  - My proficiency lies in optimizing algorithms to operate seamlessly on large datasets, consistently achieving high-performance levels.
  - Finetuning models, researching, and contributing to insightful papers in the field of artificial intelligence.
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## EDUCATION

### Bachelor of Computer Scientist Sep 2020 - Sep 2024

FPT University

- Specialization in Artificial Intelligence.
- GPA: 8.7/10.
- Top 10 best students with the highest academic performance.

## TECHNICAL SKILLS

- **Business Tools:** Excel, Power BI, Tableau.
  - **Languages:** C/C++, Python, Java, SQL, HTML/CSS.
  - **Database Tools:** MySQL, PostgreSQL, SQLite, Mongo
  - **Version Control:** Git, Docker.
  - **Frameworks:** Pytorch, TensorFlow, Polars, Transformers, Hugging Face, Langchain, etc.
  - **Generative API:** Groq, Gemini, Open AI, Meta, etc.
  - **Cloud:** AWS, GCP.
  - **Statistics:** Hypothesis Testing, A/B Testing, Regression Analysis.
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## PROJECTS

### Vietnamese Lip Reading

Jan 2023 - Jun 2024

- Employing an automated pipeline integrated with Deep Learning models, extracting concise videos from TikTok, forming the foundational dataset for Vietnamese Visual Speech Recognition and Generation.
- Training utilizes the AV-ASR architecture, employing Transformers and PyTorch Lightning.

### Vividbot

Jun 2024 - Apr 2024

- Creating the first Vietnamese Video Understanding Chatbot by fine-tuning Large Language Models - Llama-vid.
  - Translating English datasets to Vietnamese, generating new data for Question Answering tasks, evaluating against other models, and developing a website demo.
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## ACHIEVEMENTS

- 100% Scholarship FPT University.
  - Third prize in the National Thanh Thieu Nien Nhi Dong Contest.
  - Third prize in the National Tin Hoc Tre Contest.
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## PAPERS

### Evaluation of Deep Learning Models for Medicinal Plant Identification

- First-author paper evaluating EfficientNet, ViT, and BEiT models on the VNPlant-200 dataset.
- Achieved 99.14% accuracy with BEiT, demonstrating its effectiveness for plant recognition in natural settings.