Nguyen Quoc Khanh

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Education

University of Information Technology - VNUHCM June 2020 - Jun 2024
Bachelor of Science in Information System (GPA: 3.2 / 4.00) *Ho Chi Minh, Viet Nam*

- **Relevant Awards:** Merit scholarships for outstanding academic performance in two semesters and a full-tuition scholarship for exceptional academic achievement in one semester.

Nguyen Du High School for Gifted Students 2017 - 2020
Major Subject in Physical (GPA: 3.5 / 4.00) *Dak Lak, Viet Nam*

- **Relevant Awards:** Gold Medal in Physics Olympic 10-3 (2017), Gold Medal in Physics Olympic 10-3 (2018)

Experience

THINKPROMPT CO., LTD Jul 2023 – Apr 2024
Data Scientist Junior *Agile, MLOps, AWS EC2, MinIO, Docker, FastAPI, TensorFlow, PostgreSQL, Scraping*

- Worked as an AI Engineer and Data Scientist at ThinkPrompt Company, primarily focused on spearheading the development and deployment of machine learning models in natural language processing and computer vision..
- Collaborated with cross-functional teams, including Data Scientists and Software Developers, to integrate AI capabilities into existing systems, ensuring seamless functionality and scalability.
- Conducted rigorous data analysis and model validation using state-of-the-art algorithms and frameworks to ensure the highest level of accuracy and reliability in AI-driven solutions.

MAICO Group May 2022 – August 2022
AI Engineer Intern *City, State*

- Interned as an AI Engineer at MAICO Group, primarily focused on recommendation system development.
- Contributed to the development and enhancement of recommendation systems within the company's technological ecosystem.

Vietnam Olympiad in Informatics (VNOI) Jult 2020 – Dec 2022
Algorithmic Problem Setter *City, State*

- Designed and tested algorithmic problems for competitive programming competitions. Conducted beta testing, considered time complexity, and provided sample input/output.
- Collaborated with other designers, generated test data, and continuously improved the competition process.

Projects

Doctranslate.io | *LangChain, OpenAPI*

- Contributed to the development of Doctranslate.io, an AI-powered document translation platform focused on translation accuracy and operational efficiency.
- Served as an AI Engineer and Data Scientist, focusing on the development, training, and fine-tuning of advanced translation models. Enhanced efficiency and scalability through automated translation and optimized request handling

Ventus - Horse Racing Betting | *Agile, MLOps, AWS EC2, MinIO, Docker, FastAPI, TensorFlow, PostgreSQL, Scraping*

- Spearheaded the development of a data-driven horse racing betting system using Agile and MLOps frameworks, integrating real-time data acquisition via web scraping and APIs, and deploying predictive models with TensorFlow on AWS EC2.
- Orchestrated a multi-faceted deployment architecture incorporating FastAPI, Docker, PostgreSQL, and MinIO to deliver scalable betting services, automated result dissemination through web and email interfaces, and robust data management.
- Continuously refined predictive algorithms and managed a dynamic betting interface, enhancing model accuracy and user engagement, which significantly boosted profitability and provided comprehensive performance reporting to stakeholders.

Advanced Driver Assistance Systems | *Deep Learning, Image Processing, Yolo, ADAS, TenssoRT*
- Developed an Advanced Driver Assistance System (ADAS) using Python and OpenCV, implementing features such as Lane Departure Warning System (LDWS), Lane Keeping Assist System (LKAS), and Forward Collision Warning System (FCWS) to enhance vehicle safety.
- Engineered computer vision algorithms to accurately detect and track lane markers in real-time, utilizing edge detection and optical flow techniques, significantly improving driving decision support under varying environmental conditions.

Sign Language Translation | *TypeScript, HumanGAN, LLM, Skeleton Viewer, Mobile/Web*
- Developed a real-time sign language translation solution with multi-language support, leveraging cutting-edge machine learning for accurate sign-to-text and text-to-sign conversions.
- Enhanced user interaction through an intuitive interface for both desktop and mobile, enabling speech-to-text, text normalization, and internationalization across 107 languages.
- Innovated with 3D avatar animations and Human GAN technology for realistic sign language visualization, complete with video output features for sharing and accessibility.

Technical Skills

Languages: C/C++, Java, JS, C#, Python, R
Technologies: Flask, ASP.NET, Pytorch, Tensorflow, Hugging Face, OpenAI
Concepts: Generative AI, Large Language Model (LLM), Artificial Intelligence, Machine Learning, Neural Networks, API, Agile Methodology, Cloud Computing
Others: TOEIC: RL 750/990, SW (300/400), Typing Speed: 110 WPM

Awards

TensorFlow Developer Professional Certificate   2023
DeepLearning.AI   *TensorFlow 2.x, Machine Learning, Deep Learning*

Data Science Professional Certificate   2023
IBM   *Data Analysis Software, Computer Programming, SQL, Probability & Statistics*

Applied AI Professional Certificate   2023
IBM   *Generative AI, Flask, Applied AI, Software Architecture*

AI Engineering Professional Certificate   2023
IBM   *Apache Spark, SciPy, Keras, Pytorch, TensorFlow, Big Data*

IT Project Manager Professional Certificate   2023
IBM   *Leadership and Management, Project Management, Communication*

Machine Learning Professional Certificate   2023
IBM   *Machine Learning Algorithms, Probability & Statistics, KNN, PCA*

Project Management: Professional Certificate   2023
Google   *Entrepreneurship, Scrum, Risk & Budget Management, Influencing*

IT Automation with Python Professional Certificate   2023
Google   *Automation, Version Control, Manage IT Resources, Problem Solving*