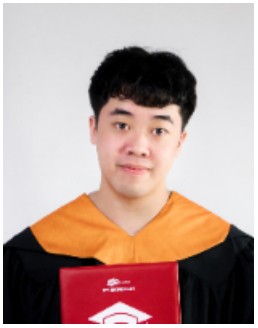

Lê Xuân Khanh

AI Engineer

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OBJECTIVE

As a recent AI Engineer graduate with a strong foundation in Machine Learning, Deep Learning, and Data Processing. Through three major projects—Classification of Skin Lesions using Convolutional Neural Networks and Soft Attention, Colorectal Cancer Classification Using Custom MobileNetV2, and Detection of Network Anomalies Using Machine Learning—I have developed hands-on experience in optimizing AI models, handling large-scale data, and enhancing algorithm performance. I look forward to applying these skills to real-world AI solutions while continuously learning and growing in a professional environment.

EDUCATION

Step 2020 - Nov 2024

FPT University

Artificial Intelligence

GPA: 3.012/4

WORK EXPERIENCE

May 2022 - Aug 2022

GENERAL ERA DIGITAL SOLUTION JSC

Intern AI Engineer (RASA)

Research and train the RASA model in applying it to consulting using the messenger app to enroll FPT university students

- Research reports related to NLP and RASA framework
- Aggregate and process data from public sources
- Train and evaluate the RASA model using Vietnamese-tokenizer(self-created), Fasttext + pyvi(tokenizer) and Fasttext + underthesea(tokenizer) have the best accuracy is 95%

Nov 2024 - Dec 2024

Freelancer: Detection of Network Anomalies Using Machine Learning

Machine Learning Engineer (Pandas, Numpy, Linear Regression, Random Forest)

- Developed a machine learning-based solution to identify and classify network anomalies for improved web security and performance monitoring.
- Prepared and cleaned large-scale network traffic data to ensure model accuracy and robustness.
- Extracted key features to enhance the sensitivity of models to abnormal patterns in network activity.
- Implemented and compared multiple machine learning algorithms, including Linear Regression and Random Forest, achieving reliable performance in anomaly detection.
- Validated models using metrics like precision, recall, and F1-score, optimizing the solution for real-world applications.
- Delivered a tool capable of detecting abnormal network behaviors, aiding proactive threat management and system optimization.

ACTIVITIES

Jan 2023 - Aug 2023

FPT University's Startup Progarm: Gogoos Recipes App

IT Developer (Firebase)

Participated in the university startup initiative to develop a cooking app aimed at enhancing cooking experiences for students and faculty members.

- Successfully developed and launched the app within the academic year.
- Managed app functionalities including recipe management, user accounts, and real-time data synchronization.
- Conducted user testing sessions and implemented feedback, improving user experience and app performance.

Step 2023 - Feb 2024

Research: Classification of Skin Lesions using CNN and Soft Attention

AI Engineer (Pandas, Numpy, TensorFlow, ResNet, IRv2)

Developed an AI model for skin lesion classification to aid early detection of skin diseases, particularly melanoma.

- Successfully achieved high accuracy (82% ACC) in classifying various skin conditions, contributing to the body of research in medical AI applications.
- Employed soft attention mechanisms to enhance the model's focus on critical image regions, improving diagnostic precision.
- Presented findings at "AI and Data Science for Health" - BME10 conferences (ID20), receiving positive feedback from faculty and peers.

Mar 2024 - Nov 2024

Research: Colorectal Cancer Classification Using Custom MobileNetV2 with Soft Attention

AI Engineer (Python, TensorFlow, MobileNetV2)

- Developed a custom deep learning model based on MobileNetV2 to classify nine colorectal tissue types using the NCT-CRC-HE-100K dataset.
- Fine-tuned a pre-trained MobileNetV2 through transfer learning, boosting baseline accuracy from 62% to 81%, and further integrated a soft attention block to enhance detection precision, achieving 93% accuracy.
- Validated the model using comprehensive evaluation metrics including precision, recall, and F1-score.
- Presented the research findings as a report at The 11th Biomedical Imaging and Sensing Conference (BISC2025), highlighting the application of advanced AI techniques for early cancer detection.

CERTIFICATIONS

Aug 2021	Python for Everybody - University of Michigan
Nov 2021	AI Foundations for Everyone - IBM
Mar 2023	Big Data - University of California San Diego
Jul 2023	Natural Language Processing - DeepLearning.AI
Jul 2023	Google Project Management - Google

SKILLS

Python	Proficient in Python for developing and deploying AI models.
Numpy, Pandas	Skilled in using Numpy and Pandas for data processing and analysis.
Tensorflow	Experienced in developing deep learning models with TensorFlow.
Research	Conducting in-depth research and analysis in artificial intelligence.
Management	Good in communication and teamwork abilities.

INTERESTS

Code, Research