NAM PHAM

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PROFESSIONAL EXPERIENCE

MACHINE LEARNING PULSE BLOG

Founder/Blogger   Apr 2024 – Present
- Regularly produce in-depth articles, tutorials, and case studies exploring advanced AI/machine learning concepts, methodologies, and application
- Garnered 1,000 subscribers fanpage, , amassed 1,000 social media followers, and cultivated a community of 1,000 active members

VINBIGDATA

Technology Specialist, Vingroup AI Engineer Training Program (Jul 2023 – Apr 2024)
- Be selected among many candidates across the country after going through a 3-step admission process. Participated in intensive AI training courses in phase 1 on AI/ML/CV/NLP concepts, algorithms, and methodologies through homeworks, hands-on workshops, seminars, and projects. Implemented capstones projects: **aspect-based sentiment analysis, image captioning**, **de-makeup**
- Engaged in a challenging internship in phase 2, specializing in **speaker recognition**, with a focus on addressing **device and environment mismatch** issues in real-world applications
  Reproduced a method with an optimized training strategy with a custom loss function from a paper to apply to a large dataset, unfortunately did not work as expected.
- Conducted survey research on data and methodologies and successfully constructed a baseline model for addressing the **voice anti-spoofing** problem. Additionaly contributed to the team by testing and analyzing team's solution models performance on benchmark datasets.

VIETTEL GROUP

Resident of Viettel Digital Talent Program - track DS & AI (Apr 2023 – Jun 2023)
- Be selected among many candidates across the country after going through a 3-step admission process.
- Participated in the phase 1 of the training program, which focused on developing skills in data science and artificial intelligence. Engaged in coursework, collaborating with a diverse group of students to solve assignments
  Performed a mini-project about **dialect and gender identification** for the Vietnamese speaker, aimed to compare effectiveness of various pre-trained **deep audio representation.**

VIETTEL HIGH TECH

Research Engineer Intern (Jul 2022 – Nov 2022)
- Learned the fundamentals of signal processing; developed a **voice activity detection** model for speech signals using LSTM. The models achieved train accuracy of 96% and test accuracy of 90%.
- Researched to solve the problem data drift when with real-world data, but not successful.

TECHNICAL SKILLS

Data Science: Statistical Analysis, Data Visualization
Machine Learning: Regression, Decision Tree, Ensemble Methods, SVM, LightGBM, XGBoost
Natural Language Processing: CNN, RNN/LSTM, BERT, Transformers, LLMs, RAG, Langchain
Speech Processing: Speaker Verification, Text-to-Speech, Voice Cloning

MLOps: Docker, FastAPI, RestAPI, AWS, GCP, Azure, Data Version Control
Languages/Tools: Python, SQL, Git, LaTex, Confluence
Libraries/Frameworks: Tensorflow, Keras, PyTorch, Scikit-learn,, Scrapy, Selenium, BeautifulSoup,, Streamlit, WandB, Qdrant

EDUCATION

HANOI UNIVERSITY OF SCIENCE AND TECHNOLOGY

Bachelor in Computer Science (Fall 2018 – Present)
Cumulative CPA: 3.22/4.0
Graduation Thesis: Chatbot Question Answering, Grade 9.5/10

SIDE PROJECTS

VOICE CLONING 🎧

Voice Assitant Using IBM Watson and GPT-3: Developed a voice assistant using JavaScript, Python, HTML, CSS, Langchain and Docker. Integrated IBM Watson's Speech-to-Text and Text-to-Speech with OpenAI's GPT-3 for intelligent responses, and deployed the application using Streamlit

REAL-TIME STOCK INVESTING ADVISOR 🎧: Build pipelines: feature pipeline, training and inference pipeline; Technologies used: Bytewax, Qdrant, LLMs, Beam, Comet, Gradio; Result:

FOOD RECOMMENDER 🎧: Developed Choosistant, an ML-powered system aiding purchasing decisions by extracting and summarizing pros and cons from product reviews.; Leveraged advanced NLP techniques to predict key spans of text describing favorable and unfavorable product features as perceived by reviewers.; Technologies used: Transformers, FastAPI; Result:

DATA SCIENCE, JOBS CATEGORY ANALYSIS 🎧: Perform an exploratory data analysis on freelance job platform Fiverr.; using Selenium/Beautifulsoup to gather data; visualization, data analysis, ; Develop a model aimed to predict the trend of customers … based on …, derive insight, trend and assist marketing champaign; Technologies used: ;Result

CERTIFICATIONS

DeepLearning.AI Generative AI with Large Language Models Jul 2023
Microsoft Certified: Azure AI Fundamentals Jun 2023
Stanford Machine Learning Apr 2022
DeepLearning.AI Tensorflow Developer   Apr 2022

IBM AI Engineer Mar 2022
IBM Data Science Mar 2022

Google Project Management

ADDITIONAL INFORMATIONS

English: TOEIC certificate with score 795 - issued by IIG   Mar 2023
Chinese: HSK …
Activities: Runner-up Iron Team