Nguyen Vu Tu

Fresher AI Engineer

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SUMMARY

Final year student with a strong academic foundation and extensive internship experience in the fields of Data Mining, Computer Vision, Natural Language Processing (NLP), and Artificial Intelligence (AI) research. I bring a wealth of project experience ranging from statistical analysis to advanced AI applications.

Currently, I am actively seeking a fresher position to advance and apply my skills.

EDUCATION

HCMC University of Technology and Education   10/2020 - Now

Embedded Systems and Internet of Things Engineering

GPA: 7.61/10

English Certification: Toeic 510
Relevant coursework: Deep Learning Specialization by DeepLearning.AI

TECHNICAL SKILLS

Machine learning FrameWork: Tensorflow, Pytorch, AirFlow
BI tools and Data Modeling: Power BI, Tableau, Microsoft Office
Programming: Python, C, C++, SQL
Database Management: MySQL, Postgresql
Data Analysis and Statistics: A/B Testing
Cloud and Big Data Analysis: PySpark, DataBricks, BigQuery
Soft skills: Able to listen, comprehend, and communicate in English, Product Management
Other: Linux OS, Git, Docker

WORK EXPERIENCE

FPT Software Ho Chi Minh   May 2023 - Aug 2023

AI Intern

Conducted research in Computer Vision, Natural Language Processing, Big Data, and Data Mining. Gained hands-on experience building, training, and optimizing deep learning models. Completed image classification project using convolutional neural networks and built a chatbot integrating APIs from OpenAI.

Developed teamwork, coding, analytical, and problem-solving skills in an AI environment. Presented internship results, proposed enhancements, and data visualizations to communicate insights.

ACADEMIC PROJECT

Hydraulic System maintenance prediction
 Developing a model to detect abnormal working conditions of critical components in the hydraulic system which include two approaches:
• Task 1: Time Domain Analysis using SVM and XGBoost
• Task 2: 1D CNN Network for Multihead-Channel Analysis

• Link project: here

Face identity and Emotion Recognition

 This is a simple web application built with Flask for recognizing human faces and detecting their emotions.

• Face recognition: The application implements a one-shot learning approach by extracting embedding values from a pre-trained Facenet model for comparison with detected faces.

• Emotion classification: The application uses a fine-tuned Facenet model with the Jonathanoheix/face-expression recognition dataset from Kaggle for classifying emotions.

• Link project: here

Skin Abnormality Detection

 Detecting skin abnormalities using advanced computer vision techniques. The goal is to identify and classify skin conditions for potential medical diagnosis and treatment.

• This work utilizes a comprehensive framework - segmentation for semantic segmentation tasks

• Model pipelines followed by encode-decode architecture: HRnet and Orcnet

• Link project: here

Tiktok Claim Classifications

 Conduct A/B testing for TikTok user behavior and develop machine learning to classify each TikTok video as a claim or proposition.

• EDA understands the impact that videos have on TikTok users

• Conduct a hypothesis test to analyze the relationship between the verified status of TikTok users and their video view

• Built a logistic regression model that predicts the verified status of the User

• Random forest (RF) and XGBoost for classifying video claims

• Link project: here

Shopee Review Spam Detection

 Detect spam reviews from users for products in commercials like Shoppee and Lazada.

• Conducting crawling, collecting the user reviews, ratings, and product descriptions

• Utilize unsupervised learning algorithms (k-mean, PCA) to identify rules, and analyze the user behavior

• Develop deep learning pipeline using GNN + RL for downstream tasks

• Link project: here