

NGUYEN HOANG TRUNG TIN

DATA SCIENTIST / MACHINE LEARNING ENGINEER

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SUMMARY

Data Scientist & Machine Learning Engineer driven by data-driven impact, eager to tackle complex challenges and develop scalable AI solutions. Proficient in predictive modeling, statistical analysis, and deploying machine learning models to production. Skilled in leveraging advanced algorithms and cutting-edge tools to optimize decision-making and business outcomes.

TECHNICAL SKILLS

- Programming: Python, HTML, CSS, JavaScript, TypeScript
- Database: PostgreSQL, MySQL, SQLite
- Data Processing, Analyzing, Visualizing: Pandas, Matplotlib
- Using ML/DL Libraries: Scikit-learn, Tensorflow, Pytorch
- BE Development: Flask, FastAPI, NodeJS
- FE Development: ReactJS, , React Native
- Deployment: Docker, Nginx, VPS
- Others: Git, Figma

PROJECT EXPERIENCE

Ronaldo VS Messi Image Classification

- Summary: Built a pipeline integrating Haarcascade (OpenCV) and SVM to detect and classify Ronaldo and Messi's faces. Deployed as a web service, allowing users to upload images for real-time classification.
- URL: [deploy-url](#), [notebook-url](#), [frontend-repo](#), [backend-repo](#)
- Technologies-Algorithms Used: OpenCV, Scikit-learn, Wavelet Transformer, Cross-validation, Support Vector Machine, Random Forest, Logistic Regression, ReactJS, Flask, Docker, VPS

News Category Classification

- Summary: This project develops an AI/ML-powered news classifier that categorizes articles and provides an interactive web UI for exploration.
- URL: [deploy-url](#), [notebook-url](#), [frontend-repo](#), [backend-repo](#), [paper](#)
- Technologies-Algorithms Used: NLTK, TF-IDF, SVM, ReactJS, FastAPI, Docker, Cloudflare, VPS

Machine Learning-Based CSI Feedback With Variable Length in FDD Massive MIMO

Learning the CSI Denoising and Feedback Without Supervision (Graduation Thesis)

- Summary: Optimized CSI feedback in FDD Massive MIMO using PCA-KMeans and compared it with Autoencoder-based learning to reduce overhead while preserving accuracy.
- URL: [pca-kmeans-repo](#), [autoencoder-repo](#), [paper-1](#), [paper-2](#)
- Technologies-Algorithms Used: TensorFlow, Keras, PCA, K-means Clustering, AutoEncoder, Matplotlib

EDUCATION

University of Science, Viet Nam National University Ho Chi Minh City

Oct 2020 - Aug 2024

Major: Telecommunications & Networks --- GPA: 7.6/10

CS50 by PhD. David Jay Malan at HarvardX

IBM Online Courses at EdX

(CS50P) Programming with Python

(DA0101EN) Analyzing Data with Python

London App Brewery by Angela Yu

Dec 2023 - June 2024

Courses: The Complete Python Pro Bootcamp + The Complete Web Development Bootcamp

EXPERIENCES

V.N.P.T Ho Chi Minh City - Informations & Technologies Center

Aug 2023 - Nov 2023

Position: Software Engineer Intern (Flutter & AngularJS)

ADDITIONAL INFORMATION

- Languages: English, Vietnamese.