HỒ TUẤN KHANH

SOFTWARE ENGINEER

CONTACT ME

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⚥ Male

SKILLS SUMMARY

●●●● Backend: Java (Spring boot, Spring cloud).

●●●● SQL: SQL Server, MySQL, PostgreSQL.

●●●● NoSQL: Mongodb.

●●●● Frontend: React, HTML, CSS, Boostrap, JQuery.

●●●● AI (Python, TensorFlow, Explainable AI).

●●●● Docker (compose and volume) Git (basic). Amazon Web Services (EC2).

EDUCATIONAL PROCESS

Natural Resources and Environment University
Fourth year student
Software Technology Major
TOEIC: 670
GPA: 3.38

INTRODUCTION

I am a student at the University of Natural Resources and Environment in Ho Chi Minh City. My major is software technology. This is my web app displaying my projects: https://hoofkhanh.netlify.app/

PERSONAL PROJECT

Intern at "Bệnh viện nhi đồng 2"
-Duration: 2 months.
-Task: Perform small modules such as code debugging, code testing, learning hospital procedures, and coded the pneumonia prediction application under the guidance of the company's seniors.

Antimicrobial Peptide Prediction(Transformer + XAI + Amazon EC2)
-Github link: https://github.com/hoofkhanh/transformer_xai_peptide
-Technologies: Python (Tensorflow), BiopPython, Transformer (model), LIME (XAI), Amazon EC2 (Amazon Elastic Compute Cloud).
-Main Function:
- Crawled raw peptide data from NCBI. The data sources include:
    a. A GenBank dataset.
    b. A diverse set of small independent sources.
    c. A combined dataset from the two sources above.
- Split long peptide sequences (over 50 amino acids) into shorter subsequences ranging from 10 to 50 amino acids.
- Extract features based on peptide sequences for model input.
- Trained a Transformer-based model on the three peptide datasets.
- Used Amazon EC2 (GPU virtual machine) for efficient training.
- Applied Explainable AI techniques (LIME) to interpret the model's predictions and identify which features contribute most to the classification outcomes.

Sound Service Web (Microservice)
-Github link:
https://github.com/hoofkhanh/springboot-microservice-sound_service_web
-Services: User, Artist, Customer, Job, Beat, Purchase Beat, Hire, Notification (real time), Payment, Favorite, Review, Conversation (real time)
-Technologies:
- Front-end : HTML, CSS, Reactjs
- Back-end: Java (Spring boot, Spring cloud)
- Database: Postgresql and Mongodb
- Oauth2: Keycloak
- WebSocket: help real time messaging
-Main function:
- User, Artist, Customer service: store information as well as accounts. Edit profiles
- Job service: Customer's work archive needs help, can be artist or other customer can help, contact via message.
- Beat service: Artists sell beats and customers buy.
- Purchase Beat service: Customers buy beats.
- Hire service: Customers hire artists.
- Notification service: There are 3 cases of notification about payment, artist rental or beat purchase (real time)
- Payment service: payment of beats, hires.
- Favorite service: Customer Adds favorite artist or beat.
- Review service: Customer reviews artist.
- Conversation service: anyone can message each other (real time). Can see when user is active
- Customers can see purchased beats, hired tasks, posted jobs. Artists can see hired tasks or posted beats.

Pneumonia Prediction (Vision Transformer Model)
-Github link:
https://github.com/hoofkhanh/pneumonia_prediction-vision_transformer
-Technologies: Python (Tensorflow), Transformer (model).
-Data link:
https://www.kaggle.com/datasets/nih-chest-xrays/data
https://www.kaggle.com/datasets/paultimothymooney/chest-xray-pneumonia
-Main Function: Build a website to predict pneumonia using x-ray images, Vision Transformer model.