Nguyen Hai Son

AI Engineer

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OBJECTIVE

AI Engineer with expertise in Data Science, ML, DL,NLP and Computer Vision. Experienced in developing and deploying AI models for business impact. Seeking to apply skills in AI and Data Science to solve complex problems at an innovative company.

EDUCATION

Ho Chi Minh City University of Technology	2021 - Now
Artificial Intelligence	

SKILLS

Programming Languages:	Python ,Java,C
Machine Learning:	Scikit-learn, TensorFlow, Keras
Data Science :	Capable of collecting, processing, and analyzing data, as well as using tools like Numpy, Pandas, Matplotlib
Natural Language Processing :	Expertise in transformer models (BERT, GPT), embeddings (Word2Vec, GloVe), and sequence models (RNN, LSTM, GRU), with experience using tools like spaCy, NLTK, and Hugging Face Transformers
Computer Vision :	Experienced in applying convolutional neural networks (CNNs) and transfer learning, YOLO for image classification and object detection, as well as using OpenCV and Ultralytics

PROJECTS

FACE RECOGNITION 5 FAMOUS PERSON

(4/2024 - 5/2024)

Description project	This project develops a convolutional neural network (CNN) model to recognize and classify images of five famous individuals.
Team size	1
Position in project	Personal project
Responsibility in project	**Preprocessing:** Collect data on the website of the Ministry of Education **Model Architecture:** A custom CNN was designed with multiple convolutional and pooling layers for effective feature extraction. **Training and Evaluation**: The model was trained on a split dataset, achieving an accuracy of 0.93 on the validation set. **Deployment:** The trained model was deployed in an interface for real-time face recognition, providing predicted identities and confidence scores.
Technologies Used	Python, TensorFlow/Keras, OpenCV, NumPy, Matplotlib.
Link to project	https://github.com/HaiSon7/CNN-Face-Recognition-5-famous-person

DATA SCIENCE - PROCESSING UNIVERSITY ENTRANCE EXAM SCORES 2020

(5/2022 - 5/2022)

Description project	This project crawl, analyzes and processes university entrance exam scores to extract insights that benefit students, educators, and policymakers
Team size	1
Position in project	Personal project
Responsibility in project	**Data Collection:** Crwal official exam results from website of the Ministry of Education. **Data Preprocessing:** Cleaned data by handling missing values and normalizing scores. **Exploratory Data Analysis (EDA):** Analyzed score distributions and identified patterns using visualizations. **Results Visualization:** Created interactive dashboards to present trends and insights effectively. **Recommendations:** Offered actionable insights for students and educational institutions based on data-driven findings.
Technologies Used	Python, Pandas , Matplotlib.
Link to project	https://github.com/HaiSon7/DATA-SCIENCE---PROCESSING-UNIVERSITY-ENTRANCE-EXAM-SCORES-2020

TEXT CLASSIFICATION IN THE SARCAM DATASET

(8/2024 - 9/2024)

Description project	This project focuses on developing a text classification model to identify sarcasm in text using the Sarcam dataset, which contains labeled comments as sarcastic or non-sarcastic.
Team size	1
Position in project	Personal project
Responsibility in project	**Data Overview:** Utilized the Sarcam dataset, featuring annotated text samples for sarcasm detection. **Data Preprocessing:** Implemented tokenization, stop-word removal, and normalization techniques like stemming and lemmatization. **Feature Extraction:** Employed word embeddings Word2Vec to convert text into numerical vectors. **Model Training:** Developed various classification models, including Deep Learning models LSTM and Logistic Regression to effectively detect sarcasm. **Model Evaluation:** Assessed performance using accuracy, precision, recall, and F1-score on a test dataset. **Results Visualization:** Created confusion matrices and performance graphs to visualize model results.
Technologies Used	Python, TensorFlow/Keras, NumPy, Pandas, Scikit-learn
Link to project	https://github.com/HaiSon7/NLP/tree/main/NLP/classfication_sarcarm

CERTIFICATIONS

Udemy NLP - Natural Language Processing with Python   10/2024