Badreddine Alloul

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Profile

As a final year Computer Science student with a Business Administration minor, I am deepening my knowledge of machine learning and AI to enhance real-world decision-making skills in data-driven projects.

Education

Al Akhawayn University, Bachelor in Computer Science with a Minor in Business Administration: Sept 2020 – Present

Projects

Chatbot with OpenAI API **Chatbot Development**

- Developed an interactive chatbot using the OpenAI API, allowing users to interact with a sophisticated conversational agent.
- Libraries used: OpenAI API, Python, Flask

CNN Image Classification **Image Classification using CNN**

- Built a Convolutional Neural Network (CNN) to classify images in a custom dataset.
- Libraries used: TensorFlow, Keras, Python

Movie Review Sentiment Classification **Sentiment Analysis of Movie Reviews**

- Developed a sentiment analysis tool to classify movie reviews as positive or negative.
- Libraries used: Scikit-Learn, Pandas, Python

React-Powered Tourist Guide Mobile Application **React-Powered Tourist Guide Mobile Application**

- Employed React for front-end development and integrated Firebase for the back-end of the mobile app.
- Enabled users to connect with local guides for personalized tours.

Jess Implementation of a Logical Agent for the Wumpus Game **Jess Implementation of a Logical Agent for the Wumpus Game**

- Developed a Jess-based logical agent to navigate a simulated Wumpus game, using rule-based systems and inference for efficient decision-making.

Unity Implementation of a Bayesian Inference Agent for "Bust the Ghost" **Unity Implementation of a Bayesian Inference Agent for "Bust the Ghost"**

- Developed an intelligent agent using Bayesian inference in Unity for the 'Bust the Ghost' game to improve decision-making and user experience.

Remote Access Tool (RAT) Client/Server Development Project

- Developed a Remote Access Tool (RAT) enabling OS identification, screenshot capture, and remote system reboot.

Skills

Languages: Python, Java, JavaScript, SQL, HTML/CSS, C, PHP

Technologies: TensorFlow, Pytorch, OpenAI API, Keras, Scikit-Learn, Flask, Docker, Git, SQL, MySQL, Firebase, Jess, Unity, Bayesian Inference, Spark, Kafka, Microsoft Word, React, WordPress, Command Line Proficiency, Microsoft Office

Certifications

Elements of AI - University of Helsinki