Mohammed Sinan

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Summary

Dynamic and results-oriented individual with a strong background in AI and a strong passion for cybersecurity. Adept at problem-solving and collaborating effectively in team environments. Committed to continuous learning and eager to integrate AI into innovative cybersecurity solutions. Highly skilled in leveraging cutting-edge technologies to drive secure, efficient, and scalable systems.

Skills

Languages: Java, Python, HTML, CSS
Databases: MySQL
Framework: ASP.NET
Other Skills: MS Office (Word, PowerPoint, Excel), Shell Scripting, Vega-Lite, Tableau

Education

RedTeam Hackers Academy   May 2024
Certified Ethical Hacker (CEH) Certification Training   *Dubai, UAE*

The British University in Dubai   September 2019 – June 2023
BSc in Artificial Intelligence   *Dubai, UAE*

Work Experience

STEMA Training and Development Center *(Internship)*   July 2022 - November 2022
Robotics / Artificial Intelligence Engineer   *Dubai, UAE*

- **Led a team** tasked with developing robotics and AI projects using **VEX Robotics** and **Tello drones**. The challenge was to oversee the entire project lifecycle, from designing robots to coding and ensuring proper execution, while also maintaining **documentation** and **reporting**.
- Led a team of 4 people in the design and construction of robots, coding techniques, technical issues ensuring efficient workflow and accurate reporting.
- Supervised the design and construction of **VEX V5, IQ**, and advanced bots like the **Arm Bot**. Led research on **AI algorithms** for drone tracking and recognition, and worked on **VEX IQ race track** and **Tello drone** projects.
- Successfully designed and implemented several robotics and AI projects, including the **Advanced Arm Bot** final project. The team was able to meet deadlines and deliver clear, well-documented reports. These projects enhanced my **leadership**, **problem-solving**, and **technical skills**.

Projects

MRI BASED BRAIN TUMOR DETECTION AND CLASSIFICATION

- Developed a **machine learning application** for detecting and classifying brain tumors from MRI images, improving early diagnosis and reducing misdiagnosis rates.
- Primarily implemented a **Convolutional Neural Network (CNN)** with six main layers: *Input layer, EfficientNetB0 (237 layers), GlobalAveragePooling2D layer, Dropout layer, Dense layer, and Output layer*.
- Achieved **88.2% accuracy**, **79.96% F1-score**, **82.23% recall**, and **86.73% precision** for tumor classification.
- Conducted a comparative analysis using **Random Forest**, which achieved an accuracy of approximately **44%**, highlighting the superior performance of the CNN model.
- Utilized **NumPy, Label Encoding**, and **Data Augmentation** techniques to preprocess 3,200 MRI images from publicly available datasets with an **88:12 train-test split**.
- Developed a basic yet functional **GUI** allowing healthcare professionals to easily interact with the model and visualize classification results.

NEXT WORD PREDICTION WITH POST-SENTENCE NAMED ENTITY RECOGNITION (NER)

- Developed a **predictive text model** that generates the next word in a sequence, followed by **Named Entity Recognition (NER)** on the full sentence to enhance *entity understanding*.

- Utilized **Python**, with **spaCy** for *NER and entity classification*, and **NLTK** for *tokenization and text preprocessing*.

- Implemented **machine learning algorithms** like **LSTM** to improve the *accuracy of real-time text prediction*.

- Performed *data preprocessing* and **model fine-tuning** to ensure *smooth performance* and **efficient integration**.