Wissem Karous

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ABOUT ME

I am currently a student in telecommunications engineering. I have a strong passion for data science and artificial intelligence, with experience in manipulating, training, and fine-tuning machine learning models. I am also passionate about open-source software.

EDUCATION

Telecommunications Engineering Student   September 2022, Present Sfax
- National School of Electronics and Telecommunications of Sfax.

EXPERIENCE

Computer Science Intern
Business Software   July 2023 - August 2023, Sfax
- Crafted a mobile app for attendance tracking to achieve accurate results and resolve the issue where 5% of employees work in remote environments.
++ Used Tech Stack: React Native, TensorFlow.js, Express.js, MongoDB.

Data Science Intern
CodeClause   March 2023 – April 2023, Online
- Implemented an approach to classify emails as spam or not spam with 100% accuracy.
- Used the BeautifulSoup library to perform web scraping and extracted data on ISIMS teachers into a CSV file containing 100 entries.
- Developed a system that uses a facial emotion detection approach to extract emotions from a webcam with an accuracy rate of 97%.

PROJECTS

- **End-Of-Year Project:**
  + Built a model with a web interface based on Streamlit for lipreading tasks, achieving the lowest CER (0.6%) and WER (1.7%) since the first paper was published in 2016.
  + Analyzed 8 research papers leading to the extraction of key elements in the project.
- Sentiment Analysis based NLP with 2 labels .
- Designed an anxiety test with the Streamlit platform featuring 4 types of questions.
- Predictive marketing modeling based on K-means and PCA (centers the most significant variance in 1/3 of its principal components).

CERTIFICATIONS

Vector Databases
DeepLearning.Ai   • 2024
- Vector Databases: From Embeddings to Applications.

Machine Learning with python
IBM   • 2023
- Machine Learning models.

SKILLS

AI libraries: Scikit-learn, transformers, TensorFlow, Keras.OpenCv

Version control: Git, GitHub, huggingface

Frameworks: Gradio, Streamlit

Programming languages: python, java, C, SQL, JavaScript ,HTML, CSS

Machine Learning fields: AI, NLP , DL, LLMs

COMMUNITY INVOLVEMENT

Instructor
Google Developer Student Clubs (Machine Learning Department Lead)   September 2023 - April 2024, Sfax
- Delivered Machine Learning workshops to more than 25 students across 10 sessions.
- Composed comprehensive learning guidelines by creating a GitHub repository and reviewing assignments with GitHub Classroom.