AHMED STA

Computer Science Student - Machine Learning Enthusiast

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Professional Profile

Final-year computer science engineering student specializing in **Data Science and Computer Vision**. I am dedicated to employ the capabilities of machine learning and artificial intelligence to confront real-world research challenges. My commitment extends beyond the theoretical; it's about translating ideas into impactful outcomes. I actively seek an internship opportunity where I can contribute to innovative projects.

Education

National School of Computer Science (ENSI)	**2021 − 2024**
National Engineering Degree in Computer Science, Specialty Data Science and Computer Vision	*University of Manouba*
Preparatory Institute for Engineering Studies of Tunis(IPEIT)	**2019 − 2021**
Preparatory Cycle Math-Physics	*University of Tunis*

Experience

Machine Learning internship   **Jun 2023 — Aug 2023**
Fysali SAS   *Lille, France*

- Select and experiment with various NLP model architectures.
- Evaluate model performance using appropriate metrics.
- Collect and preprocess a labeled dataset of medical consultation texts.
- Detect instances of violence or inappropriate behavior in gynecologist-patient interactions.
- **Technologies:** Machine Learning, NLP, HuggingFace, Transformers, BERT.

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Front end Freelance   **Aug 2023**
Fysali SAS   *Lille, France*

- Develop user interfaces with React for web applications.
- **Technologies::** ReactJS.

Projects

JobLinker   **Aug 2023 − Sept 2023**

- Develop and implement a resume parsing system using NLP techniques to extract key information such as skills, Name, Github, Linkedin and Email.
- Design and build algorithms that compare candidate profiles to job offers, considering factors like skills, experience, and qualifications.
- Build a secure and scalable backend infrastructure using Django.
- **Keywords:** Python, NLP, Spacy, Django, Data scraping.   **Github:** ⬤ STAAHMED11/JobLinker

Disease Detector   **Jan 2023 - May 2023**

- Design and implement machine learning or deep learning models for disease detection.
- Fine-tune and optimize the algorithms to improve accuracy, reduce false positives, and enhance overall performance.
- Integrate the disease detection algorithm into the web application.
- **Keywords:** Deep learning, Computer vision, CNN, Flask, Python.   **Github:** ⬤ STAAHMED11/Disease-Detector

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B-Bet   **Jun 2022 - Aug 2022**

- Develop meaningful features and variables that can enhance the accuracy of predictive models.
- Build machine learning algorithms capable of predicting match outcomes and winning probabilities based on historical data.
- Fine-tune and optimize the machine learning algorithms to improve prediction accuracy.
- Create interactive and informative data visualizations to present match statistics and predictions to users
- Design and develop a user-friendly web platform where users can access predictions and view visualizations.
- **Keywords:** Python, Machine Learning, Plotly, Web Development   **Github:** ⬤ STAAHMED11/B-BET-Website

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Corona Tweets Classification   Nov 2022 – Dec 2022
- Begin the data preprocessing phase by cleaning, tokenizing, conducting feature extraction, and implementing Stemming or Lemmatization to prepare COVID-related tweet data for sentiment analysis.
- Apply Exploratory Data Analysis (EDA) techniques to uncover patterns, distributions, and insights related to COVID-related tweet sentiments.
- Evaluate and select the most suitable model architecture, including RNN and BERT, for sentiment analysis.
- **Keywords:** Python, Machine learning, NLP.   **Github:** ⬡ STAAHMED11/COVID-Tweets-Classification

Country Clustering   Feb 2022 - May 2022
- Implement clustering algorithms to categorize countries based on their socio-economic and health factors.
- Optimize the model for accurate and meaningful cluster formation.
- **Keywords:** Unsupervised Learning, Data visualization, PCA   **Github:** ⬡ STAAHMED11/Country-Clustering

Honors

AI for Natural Disaster Management

Earning the second position in a competition that included 172 active competitors.
- Developing an AI-powered system for landslide identification with the purpose of enhancing landslide prevention and management.

Deep Learning IndabaX Tunisia

Achieving the fifth position in Antibiotic Resistance Detector Challenge
- The challenge entails constructing a classifier capable of identifying Antibiotic Resistance Genes (ARGs) from genetic sequences a determining their antibiotic resistance status.

Technical Skills

AI Expertise: Machine Learning, Deep Learning, Computer vision, Natural Language Processing, Time Series Analysis ,Supervised Learning, Unsupervised Learning,Data Analysis
AI Development Tools: TensorFlow, OpenCV, Pytorch, Keras, NLTK, SpaCy, Transformers, Gensimn, Pandas, Numpy, Scikit-learn, HuggingFace
Web Development Tools: React, Django, Flask, Bootstarp
Data Visualization Libraries: Matplotlib, Seaborn, Plotly
Developer Tools: Git/GitHub, VS Code, Android Studio
Programming Languages: Python, C, C++, R, Java, JavaScript
Mathematics Knowledge: Statistics, Probability, Linear Algebra, Graph Theory

Certifications

- Building Deep Learning Models with TensorFlow – **Coursera**
- Natural Language Processing in TensorFlow – **Coursera**
- Data Manipulation with Pandas – **DataCamp**
- Machine Learning Algorithms – **SimpliLearn**

Volunteer Experience

Tunisian Red Crescent   **2018 − 2023**
                                                                    Volunteer

ENSI Robotics Association   **2021 − 2023**
                                                                    Active Member

IEEE ENSI Student Branch   **2021 − 2023**
                                                                    Active Member

NATEG ENSI Student Chapter   **2021 − 2022**
                                                                    Active Member