

# AHMED STA

Computer Science Engineer - AI Specialist

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## Professional Profile

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I am a Computer Science engineer specializing in artificial intelligence and machine learning. My passion centers on generative AI and large language models, with a focus on harnessing their capabilities to address real-world challenges. Driven by a commitment to advancing AI research, I thrive on solving complex problems and developing innovative solutions that create meaningful impact across industries.

## Education

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### National School of Computer Science (ENSI)

2021 – 2024

*National Engineering Degree in Computer Science, specializing in 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

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### Artificial Intelligence Engineer

Dec 2024 — Present

*Way Intersactive Convergence*

*Nabeul, Tunisia*

- Developed an audio chatbot leveraging agentic AI to collect patient information, execute database integration functions, and automate healthcare workflows.
- Recording and transcribing consultations in real time to generate detailed diagnostic reports and provide recommendations to assist doctors in clinical decision-making.
- Finetuned and deployed a multimodal solution for medical analysis based on medical images.
- Deployed LLM solutions into production and integrated them into the developed website, ensuring optimal functionality and performance.
- **Technologies:** NLP, Generative AI, LLM, VLM, Agentic AI, Multimodal Learning.

### Machine learning internship

Apr 2024 — Sept 2024

*University of Moncton*

*Moncton, Canada*

- Collected and analyzed historical breach and attack data.
- Preprocessed and prepared data for algorithmic analysis.
- Developed and implemented machine learning algorithms to predict breach risks and identify attack patterns.
- **Technologies:** Machine Learning, Ensemble Learning, Data analysis.

### Machine Learning internship

Jun 2023 — Aug 2023

*Fysali SAS*

*Lille, France*

- Select and experiment with various NLP model architectures.
- 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.

## Projects

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### Stock Market Prediction Based on Sentiment Analysis

Sept 2024 - Nov 2024

- Leveraged NLP techniques and LLMs to extract investor sentiment from financial articles for predicting stock trends.
- Designed classification models to forecast stock movements (rise, fall, stable) using textual and financial data.
- **Keywords:** Python, NLP, Sentiment Analysis, LLM.

**Github:** [🔗 Stock Market Prediction](#)

## PDF lifting Values

Jan 2024 - Feb 2024

- Designed and implemented a solution using Retrieval-Augmented Generation (RAG) to parse financial PDF reports by dividing them into chunks and context for fine-tuning LLMs.
- Utilized LLMs for text generation, extracting specific metric values from the reports with high accuracy.
- Focused on improving the precision of financial data extraction by fine-tuning the models on the parsed content.
- **Keywords:** NLP, LLMs, PDF Parsing, RAG

**Github:**  [PDF lifting Values](#)

## JobLinker

Aug 2023 – Oct 2023

- Develop and implement a resume parsing system using NLP techniques to extract key information such as skills, Name, Github, LinkedIn and Email.
- Developed an unsupervised learning-based scoring model to match candidate profiles with job offers by analyzing skills, experience, and qualifications.
- Build a backend infrastructure using Django.
- **Keywords:** Python, NLP, Spacy, Django, Data Scraping.

**Github:**  [STAAHMED11/JobLinker](#)

## Disease Detector

Jan 2023 - May 2023

- Design and implement 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](#)

## B-Bet

Jun 2022 - Aug 2022

- Develop meaningful features that can enhance the accuracy of predictive models.
- Build machine learning algorithms capable of predicting match outcomes based on historical data.
- 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](#)

## Honors

### Unifi Value Frameworks PDF Lifting Competition

*Earning a Gold Medal.*

- Developed an LLM-based solution to parse PDFs of annual reports, extracting predefined sustainability metrics for Unifi.

### Landslide Prevention and Innovation Challenge

*Earning a Gold Medal.*

- Developing an AI-powered system for landslide identification with the purpose of enhancing landslide prevention and management.

### Antibiotic Resistance Detector Challenge by IndabaX Tunisia 2022

*Earning a Gold Medal.*

- 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, Large Language Models, RAG, Agentic IA ,Agentic RAG

**AI Development Tools:** TensorFlow, OpenCV, Pytorch, Keras, NLTK, SpaCy, Transformers, Gensim, Pandas, Numpy, Scikit-learn, HuggingFace, LangChain, LlamaIndex, Ollama ,OpenRouter

**Web Development Tools:** React, Django, Flask, Bootstarp

**Data Visualization Libraries:** Matplotlib, Seaborn, Plotly

**Developer Tools:** Git/GitHub, VS Code, Azure, GCP

**Programming Languages:** Python, C, C++, R, Java, JavaScript