Ahmed Sta

Computer Science Engineer - AI Specialist

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Professional Profile

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

Paris School of Technology & Business(PSTB) **2025 – 2026**
Masters M2 Degree in Artificial intelligence and Business Transformation

National School of Computer Science (ENSI) **2021 – 2024**
National Engineering Degree in Computer Science, specializing in Data Science and Computer Vision

Preparatory Institute for Engineering Studies of Tunis(IPEIT) **2019 – 2021**
Preparatory Cycle Math-Physics

Experience

Artificial Intelligence Engineer **Nov 2024 — Sept 2025**
WIC Doctor

- Built an intelligent medical chatbot using LLMs, function calling, and RAG for reliable responses, information collection, appointment booking, and workflow management.
- Fine-tuned multimodal vision-language models and developed AI tools for medical image analysis, enabling clinical insights and diagnostic support.
- Developed an AI tool for recording, transcribing, and generating structured medical reports.
- Automated patient data extraction from images, texts, and audio files.
- **Technologies:** NLP, Generative AI, Large Language Models, Vision-Language Models, Multimodal Learning, OCR.

Machine learning internship **Mar 2024 — Sept 2024**
University of Moncton

- 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

- 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

SmartCV Extractor **Oct 2024 - Nov 2024**

- Developed a system to extract structured data from text and scanned resumes.
- Integrated OCR and language models for key information extraction.
- Built a web interface and added evaluation with standard NLP metrics.
- **Keywords:** Python, NLP, OCR, LLM, Document processing **Github:** SmartCV Extractor

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

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, Gensimn, 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