



# I H E B G A F S I

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## PROJECTS

### Tunisian Language Speaking Chatbot

Oct 2023

Catering to the local community's predominant spoken language. Employed prompt engineering and RAG (Retrieval Data Generation) techniques to create a user-friendly conversational interface, deploying the chatbot on a Streamlit webpage leveraging LLMops.

### Colorectal Cancer Detector

Sep 2023

Developed a polyp identification model for gastroenterologists during colonoscopies. Employed advanced image segmentation and intricate data cleaning algorithms to enhance dataset accuracy, potentially improving patient outcomes.

### Translator From Portuguese To English

Mar 2023

A high-accuracy Portuguese-to-English transformer model using TensorFlow. Implemented state-of-the-art transformer architecture, optimizing its performance for precise language translation.

## SKILLS

### Python

TensorFlow, Pytorch, NumPy,  
Pandas, Scikit-learn,  
XGBoost, HuggingFace,  
OpenCV, YOLOv8, Streamlit,  
Scrapy, Tkinter, ZenML,  
MLFlow, MLib, PySpark

### Data Visualization

Matplotlib, Seaborn, Plotly,  
D3.js

### Cloud Computing

AWS

### Game Development

Unity (C# and JS) , Unreal  
Engine (C++)

### Databases

SQL, MongoDB, Neo4j

### Reinforcement Learning

PPO, NEAT, DQNs

### Android App Development

Java and Kotlin

### Containerization

Docker and Kubernetes

### Web Development

HTML, CSS, JS, PHP, Django

## EDUCATION

### Baccalaureate in Computer Science

2021-2022

Attained exceptional honors in the National Baccalaureate Exam, achieving the remarkable rank of 4 out of 8252 students.

### INSAT

2022-2027

Engaged in the Maths-Physics-Informatics pre-engineering stage at the National Institute of Applied Sciences and Technology INSAT in 2022-2023. I'm now studying ICT engineering at the same institute.

### TensorFlow Developer Course

2022

Engaged in the TensorFlow Developer Course at Udemy in which I've done several projects to cover TensorFlow's Framework

## AWARDS

### One Million Arab Coders Contest:

2020

Secured the 1<sup>st</sup> place in the OMAC contest for Android Apps Development, earning the Android Developer Nanodegree Course as a prize from Udacity, Google, and the Ministry of Artificial Intelligence of the UAE.

## Organizations

### Data Overflow Chairman:

2023

Organizing the event of Data Overflow at INSAT in which we're forming young engineers and creating the DataQuest Hackathon

## INTERESTS

**Writing:** I love writing useful resources, scientific papers, and I even authored a book recently (Aug 2023) called 'Graph Theory Odyssey,' in which I covered all aspects of graph theory. I love making it easier for others to learn.

**Learning:** I'm a mathematics and physics enthusiast. I love discovering how our world works. I also love learning new languages therefore I speak Arabic, French, English, and German.

**Hiking:** I enjoy venturing into the countryside with friends, relishing the fresh air, and immersing myself in nature.