

# Amenallah Berrejeb

ICT engineering student at National engineering school of Tunis

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## Summary

My name is Amenallah Berrejeb, and I'm a final ICT engineering student at ENIT. I have a strong passion for Data Science. I often take courses on Coursera and DeepLearning.AI, read research papers and exploring their codes from paperswithcode, and join Kaggle competitions to improve my skills.

## Skills

- **Machine Learning Algorithms:** Linear Regression, Logistic Regression, Decision Tree Classifier, XGBoost, K-means
- **Machine Learning Categories:** Supervised Learning, Unsupervised Learning, Anomaly Detection, Recommender System
- **Programming Languages:** C, C++, Java, Python
- **Deep Learning:** CNN, RNN, Transformers, TensorFlow, PyTorch
- **Data Visualization Tools:** missingno, matplotlib, plotly, seaborn
- **Model Deployment and Cloud:** Streamlit, AWS

## Technical Experience

- July 2023– **NLP Internship**, *M&C IT Consulting*, Lac 1, Tunis, Tunisia  
August 2023 Browsing the state-of-the-art of LLMs research papers, developing a comparative study of transformer-based language models on ADAD specifications understanding.  
**Key Technologies:** T5, BERT, Transformers, Pytorch, ALBERT, GPT.
- July 2022– **Summer Internship**, *Tunisie Telecom*, Mateur, Bizerte, Tunisia  
August 2022 An Introduction to the telecommunications field, study of transmission supports and line building center.

## Education

- September 2021– **Telecommunications Engineering Degree**, *National Engineering School of Tunis*, Tunis, Tunisia  
Ongoing
- September 2019– **Mathematics - Physics Preparatory Cycle**, *Preparatory Institute For Engineering Studies Nabeul (IPEIN)*, Nabeul, Tunisia  
June 2021
- September 2018– **High School Diploma: Mathematics Section**, Mateur, Bizerte, Tunisia  
June 2019

## Publications

- Dr Wafa Meftah, Amenallah Berrejeb, and Donies Haddad, "Towards A Machine Learning based Platform for Diseases Detection: Case of Breast Cancer," in *IEEE AMCAI 2023: 1st IEEE Afro-Mediterranean Conference on Artificial Intelligence*, Tunis, Tunisia, 2023 (Under Revision ).

## Projects

- December 2022– **End of year 2 project: Developing a Streamlit Web Application for Breast Cancer Detection**  
April 2023 **Description:** Starting from 2 datasets, I built a user-friendly web application that allows doctors to predict whether a breast tumor is malignant or benign and to predict the possibility of developing breast cancer.  
**Keywords:** Streamlit, Data Analysis, Machine Learning Algorithms for Medical diagnosis.

December 2021– **End of year 1 project: A Bibliographic Research about Geospatial Big Data**  
**Description:** Reviewing the methods used to gather, analyse geospatial big data, state-of-the-art review of machine learning methods and framework used in the geospatial domain.  
**Keywords:** Cloud Computing, Machine Learning Applied to Geospatial Data, GIS Framework.

March 2022– **Library Management Desktop Application**  
**Description:** An object-oriented project dedicated to build a desktop application combining several technologies like QT framework and SQL databases.  
**Keywords:** QT Creator, C++, SQL.

October 2021– **Building a small neural network from scratch**  
**Description:** Instead of using predefined frameworks , I built a small neural network using Numpy  
**Keywords:** Numpy, Deep Learning, Activation Functions.

July 2022– **Brain stroke predictions**  
**Description:** Trained a decision Tree classifier to predict brain stroke from csv dataset after doing data visualisation , data analytics and feature selection  
**Keywords:** Pandas ,Matplotlib , Seaborn , Sklearn.

### Languages

**Arabic:** Native

**English:** Advanced (TOEIC B1)

**French:** Advanced (DELF B2)

### Extra-Academic Activities

- **IEEE ENIT COMPUTER SOCIETY:** Senior Member
- **GOOGLE DEVELOPERS STUDENT CLUB, ENIT:** Senior Member
- **Kaggle:** Kaggle Contributor

### Certifications

- **Machine Learning Specialization (3 courses)** - DeepLearning.AI
- **Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization** - DeepLearning.AI
- **Structuring Machine Learning Projects** - DeepLearning.AI
- **Python for Data Science and AI** - Coursera
- **Hands on Introduction to Linux Commands and Shell Scripting** - Coursera