Amenallah Berrejeb

ICT engineering student at National engineering school of Tunis

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Overview

- Final-year ICT Engineering Student at ENIT.
- Organized AI Enthusiast
- Explorer of Coursera and DeepLearning.AI Courses
- Attentive Reader of AI Research Papers using paperwithcode.com
- Contributor to Kaggle
- Reliable and Good Listener, Always Attuned to the latest AI Discussions and Advancements.

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–August 2023 **NLP Internship**, *M&C IT Consulting*, Lac 1, Tunis, Tunisia
I browsed the state-of-the-art of LLMs research papers, then designed and developed a comparative study on transformer-based language models on ADAD(M&C's project) specifications understanding.
Key Technologies: T5, BERT, Transformers, Pytorch, ALBERT, GPT.

July 2022–August 2022 **Summer Internship**, *Tunisie Telecom*, Mateur, Bizerte, Tunisia
I delved into the telecommunications field, learnt about transmission supports, and explored the line building center.

Education

September 2021–Ongoing **Telecommunications Engineering Degree**, *National Engineering School of Tunis*, Tunis, Tunisia

September 2019–June 2021 **Mathematics - Physics Preparatory Cycle**, *Preparatory Institute For Engineering Studies Nabeul (IPEIN)*, Nabeul, Tunisia

September 2018–June 2019 **High School Diploma: Mathematics Section**, Mateur, Bizerte, Tunisia

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– April 2023 **End of year 2 project: Developing a Streamlit Web Application for Breast Cancer Detection**
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– April 2022 **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– April 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– 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– August 2022 **Brain stroke predicitions**
Description: Trained a desicion 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