Sayah Mahfoud Abd el Ali

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PROFILE

As a dedicated student, I possess a strong foundation in web applications and data-driven solutions, currently broadening my expertise in data science. Actively engaged in science clubs, I bring an outgoing personality, innate motivation, and disciplined work ethic to my studies. Committed to continuous learning and making impactful contributions to the field.

EDUCATION & CERTIFICATIONS

Higher School of Computer Science Sidi-Bel Abbes   **Sidi Bel Abbes, Algeria**
Final year in Computer Science (ISE)   *2020*
Relevant Courses Completed : Calculus3, Algebra, Probability & Statistics, Knowledge Engineering, Data Analysis, Analysis and design of advanced algorithms, Advanced Databases(SQL, noSQl ,PL Sql, ETL, PowerBi)

- DataCamp : Associate Data Scientist
- Google Cloud Computing Foundations | Google Cloud skillboost
- CS50ai : Introduction to Artificial Intelligence with Python | Harvard University

PROFESSIONAL EXPERIENCE

Xpertify Solutions   **Sidi Bel Abbes, Algeria**
Backend Development Intern   *December 2023*
- Engineered efficient data schemas and managed databases using PostgreSQL.
- Developed well-documented APIs for data retrieval and management.
- Leveraged Docker for environment consistency and cloud solutions for media file management.

Ooredoo Algérie   **Oran, Algeria**
IP Networking Intern   *September 2023*
- Acquired hands-on experience in LAN and WAN networks (L2/L3), exploring various telecommunication services within the company.
- Immersed in IP operations and WAN/MPLS infrastructure
- Developed Python and PyQt automation tool for equipment configuration.

PROJECTS

Building a Real-Time Data Pipeline with Cloud Dataflow   *May 2024*
- Provisioned resources like a **BigQuery** dataset/table and **Cloud Storage bucket** using Cloud Shell and Google Cloud Console.
- Implemented a **Pub/Sub to BigQuery Dataflow** template to create a **data pipeline**.
- Executed the Dataflow pipeline, ingesting **real-time taxi ride data** from Pub/Sub and storing it in BigQuery.

Masked Language Modeling and Attention Analysis with BERT   *March 2024*
- Implemented a **Python** program using the **Transformers library** to predict masked words in sentences with a **pre-trained BERT model**.
- Analyzed the generated attention weights to understand how the model focuses on different words in a sentence.
- Identified and described specific relationships between words that certain attention heads focused on (e.g., noun-adjective agreement)

SKILLS

- **Programming Languages & Libraries**: Python, R, Java, C , C++, HTML, CSS, Javascript
- **Machine Learning And Data Science :** pandas, NumPy, matplotlib, scikit-learn, Keras, TensorFlow
- **Database Management**: SQL (ETL, PL SQL, PowerBI), NoSQL (MongoDB, Cassandra), PostgreSQL
- **Cloud Platforms**: Google Cloud Platform (BigQuery, Cloud Dataprep, Cloud Dataflow, Pub/Sub)
- **Other Technologies**: Django Rest Framework, API RESTful Development, Docker, Git

Languages

English : Fluent   **French** : Proficient   **Arabic** : Native