OUSSAMA SEFFAI

Software engineer

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Summary

·Mastery of JavaScript " using nodeJs as run-time" for APIs development .
·Mastery of Python development for Data Science and ML.
·Ability to analyze data descriptively and identify corrections to be made

Education

UMBB University   Sep. 2015 − May 2017

Master's degree in automation: Faculty of hydrocarbon and chemistry.
Final project:Solving industrial regression problem using neural networks optimized by ABC algorithm

UMBB University   Sep. 2012 − May 2015

Bachelor's degree in automation : Faculty of hydrocarbon and chemistry.

Baccalaureate's diploma in mathematical studies with honours   Juin. 2012

Experience

Legal doctrine   April 2022 − current

Software engineering "backend mainly"

- Develop **APIs** using **expressJs**
- Setting up **tests and ci piplines** ,using **jest and gitlab runner**.
- Setting up **infrastructure** ,using **docker pm2 and Nginx**.

TFN, Inc   December 2020 − April 2022

Data scientist Part time (remotely)   *Atlanta, GA*

- Assisted in the development of the production pipeline by implementing **AI** tools.
- Worked with **Pandas** and other **data science** frameworks to analyse and process data.
- Collaborated with team members using version control systems such as **Git** to organize modifications and assign tasks.
- Utilized **Dash/Plotly** and **Streamlit** as development frameworks in order to visualize data and build **machine learning application**.

Projects

Server-side app project | *NodeJs, ExpressJs Docker, Nginx*   August 2021

- Maintaining and writing code of server side of a platform using **NodeJS** and handling business logic to deliver the optimum robust scalable code

NLP project | *Python, Huggingface transformers, Tensorflow*   August 2021

- Implemented transformers pipeline using **Huggingface** library to do NLP tasks to create chat bots and analyse documents.

Data exploitation pipeline | *Python, Pandas, Sklearn , Spacy ,Seaborn*   March 2021

- Implemented **OCR** algorithm using Python to convert images and scanned PDFs to text .
- Implemented **Tabular.py** to create CSV files and then preprocessed them using pandas.
- Created a machine learning model to exploit data using **Spacy** to process text and **Sklearn** for modeling.
- Made reports about exploited data and visualized it using **Seaborn**.

Implemented AI tools for content creation | *Tensorflow,Pytorch*   **January 2021**
- Implemented a machine learning application to remove the background of a video and replace it with green one .
- Implemented models to do speech-to-text and text-to-speech.
- Utilized **Tensorflow** to implement model that colorize black and white videos.

Forecasting stocks | *Python, pandas ,API, Tensorflow*   **December 2020**
- Used **API** to get data from yahoo finance.
- Used Plotly and Pandas to visualize and process data.
- Used Tensorflow to build time series **LSTM** model to forecast stocks.

Technical Skills

Languages: Python , JavaScript .
Developer Tools: VS Code, Google Colab Platform, anaconda tools , Version control : Git
Technologies/Frameworks: Tensorflow, Pytorch, GitHub, Sklearn, Pandas , Huggingface , Spacy , NodeJS , docker , Nginx , ExpressJS

Languages

Arabic: native
English: advanced
French: intermediate

Leadership / Extracurricular

National military service   **summer 2018 − May 2019**
officer
- Confident, articulate, and possessor of an initiative to take the right decisions and an ability to work under pressure due to previous experience as an Officer in the Army.