



# ABDERRAZZAK BAJJOU

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## Education

### Mohammed VI Polytechnic University

*Master Modeling and Data Science*

Sep. 2020 – June 2022

*Ben Guerir, Morocco*

### Sciences and technologies Faculty

*Bachelor of Science in Computer Science*

Sep. 2017 – June 2020

*Mohammadia, Morocco*

### Al Khwarizmi High School

*High school diploma*

Sep. 2014 – June 2017

*Casablanca, Morocco*

## Experience

### Mohammed VI Polytechnic University

*Data Scientist Intern*

May 2021 – August 2021

*Ben Guerir, Morocco*

- Developed a web application in the form of a conversational agent which simulates medical consultations.
- Incorporated scripts using Python and JSON to collect User's personal information .
- Utilized BeautifulSoup to scrape Data from Clinical web pages.
- Created a Symptom Extractor using NLP methods and a prediction Model for possible diseases .

### Sciences and technologies Faculty

*Data Scientist Intern*

April 2020 – July 2020

*Mohammadia, Morocco*

- Developed a mobile application using React Native to assist visually impaired people.
- Worked with Google Colaboratory to create a deep Learning Model for Optical Character Recognition.
- Collaborated with team members using version control systems such as Git to organize modifications and assign tasks.
- Utilized Expo-Speech as a voice synthesizer and Expo as a development environment in order to visualize the application in both iOS and Android .

## Projects

### Bank Marketing Campaign Subscriptions Predictor | *Python, Flask*

April 2021

- Integrated, cleaned and prepped Data from a kaggle Competition .
- Used various Data Preprocessing tools and Machine Learning algorithms to establish a classification model that outperformed the available version .
- deployed the application on Heroku.

### Covid-19 ABM | *Python, Mesa*

March 2021

- Built an Agent Based Model using Python and Mesa to simulate the spread of COVID-19 .
- Designed Agents and the interaction environment .
- Defined Agents behaviour and their Mutual Interactions .

### Face Mask Detection | *python, open CV, TensorFlow*

January 2021

- Created a Real Time application using Python to detect no mask wearer on campus .
- Collected and Preprocessed images dataset .
- Trained and Tuned a Deep Learning Model for Image Classification.

## Skills

**Languages:** Arabic , French , English , German

**Programming :** Python, Java, C, Matlab HTML/CSS, Bootstrap, PHP, JavaScript, SQL , PLSQL, React Native, PySpark

**Developer Tools:** VS Code, Eclipse, PyCharm

**Technologies/Frameworks:** Cloudera, Hadoop, Ubuntu, GitHub, LaTeX, Markdown

## Leadership / Extracurricular

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### Cyborgs Club

*Instructor*

**Mai 2021**

*Mohammed VI polytechnic University*

- Delivered a Three-hour Training session on Image Processing and OpenCV .
- Managed Image Processing and Edges Detection Workshops for 100+ members .

### Science Week UM6P

*Project Manager*

**November 2021**

*Mohammed VI polytechnic University*

- Designed a Smart Robot Car .
- Developed a Computer Vision System to detect and recognize Traffic Signs and implement it on a Raspberry Card.
- Created a User Interface using Tkinter for Streaming and control commands.