# Maha BEN ARBIA

## Data Science Engineer

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## 👤 PROFILE

Data scientist with a passion for solving complex problems, translating data into actionable insights and making an impact. Seeking new challenges to apply my analytical skills and drive innovation in a dynamic organization.

## 🎓 EDUCATION

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|---|---|
| 2019 – 2022 | **ENGINEERING DIPLOMA IN COMPUTER NETWORKS AND TELECOMMUNICATIONS**<br>*National Institute of Applied Science and Technology ( INSAT )* |
| 2017 – 2019 | **PREPARAOTRY CYCLE MATHEMATICS, PHYSICS AND COMPUTER SCIENCE**<br>*National Institue of Applied Science and Technology ( INSAT )* |
| 2016 – 2017 | **BACCALAUREATE IN MATHEMATICS**<br>*Salem City School* |

## 💼 PROFESSIONAL EXPERIENCE

**02.2022 – present**
**Paris, France**

**DATA SCIENTIST**
*Altaroad*
- Implementation of an OCR (Optical Caracter Recoginition ) feature for digitalization of documents, classification and informations extraction.
- Implementation of real time carbon footprint feature.
- Production deployment on the cloud (AWS), dashboarding the KPIs (KIBANA), monitoring and maintenance of the projects.
  **Skills** : *Python, Computer vision, Scikit-learn, OpenCV, AWS, Elasticsearch, Kibana, Docker, Git..*

**07.2021 – 12.2021**

**PART TIME DATA SCIENTIST**
*Tledger Tech*
- Implementation of an API for identity cards detection, face verification and information extraction.
- Development of an interface for a self-filling form using the API and its integration in the company's platform in order to help users fill a form automatically with just a picture of their identity cards.
  **Skills** : *Python, Computer vision, Tensorflow, OpenCV, Flask, Laravel, PHP, AWS, Git..*

**10.2020 – 06.2021**

**WEB DEVELOPER**
*Junior Entreprise INSAT*
- Development of websites for clients and for the Junior Entreprise's events and forums.
- Development of e-commerce platforms for clients.
  **Skills** : *React.js, Node.js, Express.js, Mongodb, NOSQL, Git.*

**07.2020 – 09.2020**

**WEB DEVELOPMENT INTERN**
*Galactech Studio*
Development of a social network for GAMERS :
- UML modeling, design of the platform and implementation of a responsive frontend.
- Participation in the platform's backend and features development.
  **Skills** : *React.js, Node.js, Express.js, Neo4j, UML, Figma, Git..*

## 📁 PROJECTS

**MENUS AND CARDS DIGITALISATION PLATFORM "LACARTECO"**
- UI UX conception.
- Frontend development (React.Js).
- Backend features implementation.

**AUTONOMOUS SHOPPING AND PAYMENT APP "CARTIA" (cartia.org)** 🔗
- UI UX conception.
- Mobile app frontend and backend development with Dart and Flutter.
- Creation and integration of an API to connect the application to its products database (Express.js).

**INFORMATION EXTRACTION AND DOCUMENT CLASSIFICATION TOOL**
- Use of Textract AWS service for the OCR.
- Features extraction with TF-IDF algorithm combined with an SVM model for the document classification.
- Design of an AWS architecture for the deployment of the tool.

**API FOR IDENTITY CARD DETECTION, FACE VERIFICATION AND INFORMATION EXTRACTION**
- Development of a tensorflow model for object detection to detect the identity card, retraining of an OCR model on a custom font, which is the arabic font of tunisian identity cards, and integration of a face verification feature.
- Development and deployment of a Flask API for the tool under an AWS EC2 instance.
- Integration of the API in the company's platform to create autofill forms.

**CARPOOLING PLATFORM "ZEMILGO"**
- UI UX conception.
- SQL Database design and development.
- Fullstack development of an interactive web application using React.js, Node.js and Express.js.

## 🌐 LANGUAGES

- French
- English
- Arabic
- Spanish