

Imen Bouzidi

Portfolio: Imen

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EDUCATION

• Higher Institute of Statistics and Information Analysis

- National Engineer Diploma in Statistics and Data Analysis

Ariana, Tunisia

September 2017 - July 2020

Courses: Mathematics, Statistics, Economics, Computer Science, Machine Learning

• Preparatory School for Engineering Studies

- Intensive preparation program for entry exam to engineering schools

Tunis, Tunisia

September 2014 - June 2017

Major: Mathematics - Physics

EXPERIENCE

• Roche

- Data Analytic Intern

Tunis, Tunisia

May 2022 - Present

○ Africa Data Acceleration Squad, Data and Analytic Chapter.

• Asqii: Health-tech Start-up

- Data scientist

Tunis, Tunisia

March 2022 - May 2022

○ Trained OCR and speech to text models on Tunisian's health records.
○ Developed user interface platform to test the models using Streamlit.

• Creativ-Ceutical An international Consultancy group

- Statistician and Data Analyst

Tunis, Tunisia

September 2020 - December 2021

○ Manipulated Real World Patient Data using SAS.
○ Developed automated statistical tests using R.
○ Developed and implemented functions to meet clients need and delivered reports to the client.
○ Trained coworkers on data visualization and machine learning.

• Datametrix: Swiss clinical research organization

- Depression detection on social networks using Deep Learning: Graduation Project

Tunis, Tunisia

February 2020 - June 2020

○ **Data collection:** Crawled two types of labeled data related to users (Images and Texts) from three websites: Unsplash, Pexels and Twitter using Twitter's API, unsplash API and Selenium/ BeautifulSoup
○ **Data Preparation :** Pre-processed both visual and textual data and created a pipeline to easily load data.
○ **Training models:** Trained multiple models (Tensorflow)
○ **Saved Models:** Saved weights of optimal models, having the best performance, for further predictions.
○ **Integrate texts and images models:** Integrated best models with the highest accuracy, Precision, Recalls and F1-scores which were GloVe+BiLSTM for texts and BiT-L(ResNet101x1) for images to create a multi-modal model that classify users based on a combination of texts and images posted on Social Media.

• Pastor Institute

- Extracting external clinical signs of Leishmaniasis: Internship (Full-time)

Tunis, Tunisia

June 2019 - August 2019

○ **Exploratory Analysis:** Reviewed a data set of leishmania-infected dogs and prepared data using R libraries.
○ **Cluster Analysis:** Clustered infected dogs based on their external clinical signs using Clustering techniques and Cluster Validation on R.
○ **Article:** Concluded the study by writing the research paper.

• National Institute of Public Health

- Tunisia Health Examination Survey Program: Internship (Full-time)

Tunis, Tunisia

June 2018 - August 2018

○ **Pre-process Data:** Manipulated very large data sets, extracted information and tabulated the results using R.
○ **Modeling:** Carried out descriptive statistics and multivariate analysis (statistical tests, linear regression & logistic binary regression).
○ **Results:** Studied the epidemiological characteristics of diabetes in Tunisia: Population at risk, Prevalence, risk factors and balanced diabetes' parameters. Implemented an R shiny application to visualize results for real-time data.

SKILLS SUMMARY

- **Programming Languages:** Python, R, SAS, SQL, SPSS, PHP, HTML

- **Libraries:** Scikit, NLTK, Keras, TensorFlow, OpenCV, NumPy, Pandas, Selenium, BeautifulSoup, Pytorch

- **Platforms:** Linux, Windows, GCP (Google Cloud Platform)

- **Languages:** English (Advanced) – French (Intermediate) – Arabic (Native)

VOLUNTEER EXPERIENCE

- General Secretary at Statisticians without frontiers.

Tunis, Tunisia

- Organized events, conducted workshops and delivered trainings for machine learning courses.