

# Imen Bouzidi

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## EDUCATION

### • Higher Institute of Statistics and Information Analysis

• *National Engineer Diploma in Statistics and Data Analysis*

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

Ariana, Tunisia

September 2017 - July 2020

### • Preparatory School for Engineering Studies

• *Intensive preparation program for entry exam to engineering schools*

*Major: Mathematics - Physics*

Tunis, Tunisia

September 2014 - June 2017

### • Lycée Pilote Kasserine

• *Tunisian Scientific baccalaureate - Mathematics: Grade 16.42/20*

*High School for top ranked Tunisian students. Acceptance through a highly selective national exam.*

Kasserine, Tunisia

September 2010 - June 2014

## EXPERIENCE

### • Creativ-Ceutical An international Market Access and HEOR Consultancy group

Tunis, Tunisia

• *Junior Data Analyst: Health Economics and Outcomes Research department*

September 2020 - Present

- **HEOR department:** Apply a combination of SQL/SAS queries to manipulate Real world data, implement functions to meet clients need and deliver reports to the client.

### • Datametrix

• *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 using npz library.
- **Training models:** Trained multiple models (Tensorflow) :
  - \* RNN (Recurrent Neural Networks) based models for text classification to analyse and classify depressed users.
  - \* CNN (Convolutional Neural Networks) based models for image classification of depressed and not depressed users.
- **Saved Models:** Saved weights of optimal models, having the best performance, for further predictions.

### • 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.

### • Higher Institute of Statistics and Information Analysis

Ariana, Tunisia

• *R package for Sensory Analysis: Year-End Project*

January 2019 - May 2019

- **Modeling:** Utilized unsupervised clustering functions, principle component analysis and cluster validation to understand consumer's behavior.
- **Functions:** Created multiple R-functions to easily manipulate data sets
- **Interface:** Designed and developed an adapted and user-friendly R shiny interface for the R package to make sensory analysis easier for users.

### • National Institute of Public Health

Tunis, Tunisia

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

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 (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

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

• **Soft Skills:** Stress Management

• **Languages:** English (Advanced) – French (Advanced) – Arabic (Native)

## VOLUNTEER EXPERIENCE

### • Secretary General at Statisticians without frontiers.

Tunis, Tunisia

• *Organized events, conducted workshops and delivered workshops for machine learning courses.*