

# Imen Bouzidi

Portfolio: Imen

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## EDUCATION

- **Higher Institute of Statistics and Information Analysis** Ariana, Tunisia  
*National Engineer Diploma in Statistics and Data Analysis*  
*Courses: Mathematics, Statistics, Economics, Computer Science, Machine Learning*  
September 2017 - July 2020
- **Preparatory School for Engineering Studies** Tunis, Tunisia  
*Intensive preparation program for entry exam to engineering schools*  
*Major: Mathematics - Physics*  
September 2014 - June 2017
- **Lycée Pilote Kasserine** Kasserine, Tunisia  
*Tunisian Scientific baccalaureate - Mathematics: Grade 16.42/20*  
*High School for top ranked Tunisian students. Acceptance through a highly selective national exam.*  
September 2010 - June 2014

## EXPERIENCE

- **Creativ-Ceutral 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.
- **Datamatrix** Tunis, Tunisia  
*Depression detection on social networks using Deep Learning: Graduation Project*  
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** Tunis, Tunisia  
*Extracting external clinical signs of Leishmaniasis: Internship (Full-time)*  
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.*