

# Imen Bouzidi

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## EDUCATION

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- **Higher Institute of Statistics and Information Analysis** Ariana, Tunisia  
*National Engineer Diploma in Statistics and Data Analysis* September 2017 - July 2020  
*Courses: Mathematics, Statistics, Economics, Computer Science, Machine Learning*
- **Preparatory School for Engineering Studies** Tunis, Tunisia  
*Intensive preparation program for entry exam to engineering schools* September 2014 - June 2017  
*Major: Mathematics - Physics*

## EXPERIENCE

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- **Roche** Tunis, Tunisia  
*Data Analytic Intern* May 2022 - Present
  - Africa Data Acceleration Squad, Data and Analytic Chapter.
- **Asqii: Health-tech Start-up** Tunis, Tunisia  
*Data scientist* 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** Tunis, Tunisia  
*Statistician and Data Analyst* 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.
- **Datamatrix: Swiss clinical research organization** 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.
  - **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** 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.
- **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 (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

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- **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

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- **General Secretary at Statisticians without frontiers.** Tunis, Tunisia  
*Organized events, conducted workshops and delivered trainings for machine learning courses.*