

Mariem Bouhadda

Statistics and Data Analysis Engineer

23 years old from Tunisia



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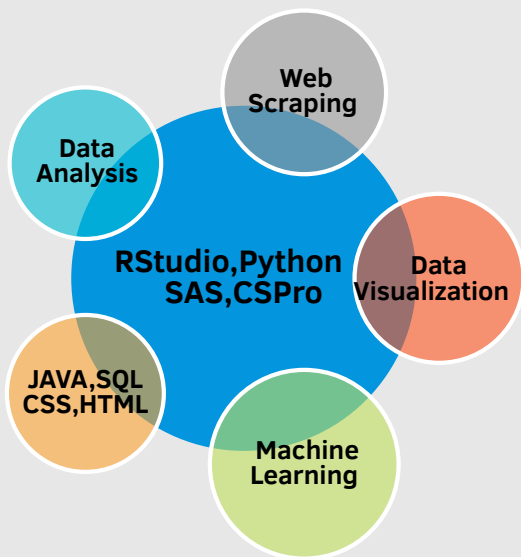


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Technical Skills



Career Objective

I am a Statistics and Data Analysis Engineer, passionate about bioinformatics, I am aiming for a career in this field where I can apply my statistical and biological knowledge as well as my skills from data analysis and visualization to building machine learning models using both R and Python.

Education

2016 - 2019 **Higher School of Statistics and Data Analysis - Tunis (ESSAIT)**
Graduated with highest honors (Equivalent to a Master of Science degree)

Main focus on a 3 axis curriculum :

- Theoretical and Applied Statistics
- Computer Science
- Economics and Finance

2014 - 2016 **Preparatory Institute for Engineering Studies of Tunis**

- Mathematical Physics (MP)

2010 - 2014 **Ibn Khouldoun Highest School**

- Bachelor's Degree in Mathematics With highest honors.

Internships

July-In progress **Laboratory of BioInformatics, bioMathematics and bioStatistics (BIMS), Institute Pasteur of Tunis**

2019

- Next Generation Sequencing data analysis

February-Mai **Breast cancer image classification**

2019

Fogits Solutions

- Done image Data preprocessing.
- Developed a Convolutional Neural Network model that classifies benign and malignant tumors by 86 % accuracy using Histopathological breast cancer images.
- Improved the performance of the model using Hyperparameter tuning methods based on mathematical theories.
- Hosted the developed model on Web Server.
- Built a user friendly Web Application that uploads breast cancer microscopic images, classifies them to benign and malignant tumors and displays charts of classification results.
- Tools : Python, JavaScript, HTML and Flask Web Server.

July - August **Web Scraping and RShiny application**

2018

OpenWay

- Built an RShiny Web application that scrapes Tunisian trade data: exports and imports by material, quantity and year based on the user's choice.
- Cleaned Data using R.

June -August **Survey Projects**

2017

One To One

- Developed data entry applications using C#.
- Cleaned and analyzed data using SPSS and Excel.

Soft skills learned

- From Weight lifting
 - Consistency, dedication
 - The value of pain
 - Self discipline
- As a Responsible for communication in the "Stats Revolution Club"
 - Leadership
 - Teamwork
 - Effective Listening

"The only way to do great work is to love what you do."

Steve Jobs

Projects

Machine Learning project : Binary Classification of Breast Cancer

Created an RShiny Web application that :

- Visualizes univariate and bivariate Analysis.
- Compares different machine learning classification models in terms of accuracy and ROC curves.

Stock Market Modeling and Forecasting

- Studied ARCH and GARCH models.
- Applied forecasting models to predict the variance of CAC 40 stock indices and compared the forecasts using multiple statistical tests.

Certifications

- Training course of : Self development and public speaking skills.
- TOEIC Listening and reading Test : 795 / 990.
- Voltaire Certificate: Measures the mastery level of writing in French. Got a Business Level.
- First Aid certificate from the Tunisian Red Crescent : LEVEL 1.

Languages

- English , French , Arabic , Spanish.