


Samia Maguedouda BELHADDAD

Currently pursuing a 2 years master's degree program in Applied Statistics & Probabilities
+2 years of learning and experiencing with Machine Learning & Data Science tools & methodologies.
Aiming to combine my Academic Background and my self-taught skills to solve practical problems

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Education

Master's in Applied Statistics and Probability : First Year
University of Science and Technology Houari Boumediene 

2021 - 2022

- Time Series Theory & Analysis
- Stochastic Modeling & Simulation
- Parametric Statistics & Estimation
- Measure Theory & Stochastic Calculus
- Queuing Theory

- Regression & Classification Analysis
- Non Parametric Statistical Testing
- Inferential Statistics
- Information Theory
- Introduction to Economy


Bachelor's Degree in Mathematics
University of Science and Technology Houari Boumediene 

2018 - 2021

- Algorithms & Data Structures
- Linear Algebra
- Real Analysis , Complex Analysis
- Mathmatical Logic
- Functional Analysis & Hilbert Spaces

- Multivariate Analysis
- Abstract Algebra,Fields & Ring theory
- Numerical Analysis
- C Programming
- First Order Differential Equations


WORK EXPERIENCE

Junior Data Scientist (Fall 2021 Internship)
AItech- Agriculture Intelligence & Technologies 


- Time Series Analysis of agricultural historical data coming from sensor devices
- Explored state of the art deep learning models for forecasting
- Performed Data analysis and modeling using LSTMs

Data Science Content Creator (Summer 2021 Internship)
Ignitus

- Built End-to-End Data Science guided learning projects in regression and image classification

Content and Community Manager (2020-2021)
Wejehni 

- We helped thousands of students answering their concerns about higher education.
- Created social media content about education & university programs in Algeria.
- Managed to respond to career concerns of hundreds of high school students

Web Content Creator (08-10/2019)
Sylabs 

- Acquired knowledge about Business, Marketing, Entrepreneurship, Startups .
- Worked on Mapping the Algerian Entrepreneurship Ecosystem Project.
- Gained skills in content management systems (WordPress).

VOLUNTEER WORKS

Event Organizer : CSE:Club Scientifique de l'ESI (2017 - 2020) 

- Participated in the organization of several events during +2 years of active Membership including the Largest Hackathon in Africa and HackIT in Algeria

Mental Health Talks Ambassador (10/2019 - 10/2020) 

- Raising awareness about Mental Health Topics in the Algerian Society through Events and a Digital Presence & social media content

Social Media Manager : Algeria Game Challenge (07/2019)

- Algeria Game Challenge is the first and the largest Game Development competition in Algeria I was in charge of the Facebook page of the competition.
- Created Visuals and posts featuring the event.

Coding Mentor for Kids : Kids Can Code (02/2019)

- An event by the club C&S, in which students in IT teach kids programming using Scratch

INTERESTS

- Traveling
- Sustainability
- Behavioral Psychology
- Learning


Technical Skills

- Languages : Python , R
- Data Structures and Algorithms
- Machine Learning Algorithms
- Data Science Libraries : Scikit-Learn , Numpy, Pandas ,Seaborn ...
- Deep Learning Architectures : NNs,CNNs, RNNs,GNNs
- Deep Learning Frameworks : Tensorflow -Keras
- Google AI Platform
- Machine Learning Pipelines : Tensorflow Extended
- Git ,Github , Gitlab
- Databases
- SQL


Soft Skills

- Autonomy
- Research
- Adaptability
- Communication
- Problem Solving
- Presentation


PROJECTS AND RESEARCH

Product Quality Assessment (09/2021) 


- The objective was to detect whether a manufactured product is defected or not
- Performed Image Classification using CNNs and Tensorflow Sequential API
- Trained a Deep Learning model for Binary and Multiclass Classification

App Enrollment Prediction (08/2021) 

- Predict App Enrollement based on User interaction Data : Costumer Behavior
- Trained a Logistic Regression Model on a real life Dataset
- Achieved 85 % measure of Separability









An overview of Homomorphic Encryption (04/2021-07/2021) 

- Analysed state of the art abstractions of Finite fields and Ring Cryptography
- Explored the applications of Homomorphic Encryption in the current era
- Focused on highlighting the Paillier Cryptosystem

Clustering Townships of Algiers based on Venues (05/2020-06/2020) 

- Applied Data Science Methodology from Business understanding to attaining business objective
- Used Location Data and FoursquareAPI
- Trained a Kmeans Clustering model to group townships based on Target Venues
- Performed using Pandas, numpy , Matplotlib, ScikitLearn,Seaborn ...

CERTIFICATES AND COURSES

- Machine Learning Engineering for production Specialization (2022) 
- DeepLearning.AI TensorFlow Developer Specialization (08/2021) 
- Software Engineering for Data Scientists in Python (01/2021) 
- IBM Data Science Specialization (07/2020) 
- Neural Networks and Deep Learning (07/2020) 
- Introduction to Psychology (07/2020) 
- Data Analysis Track from Udacity (05/2020) 
- Google Fundamentals of Digital Marketing (07/2019) 

LANGUAGES

English	French
Full Professional Proficiency	Full Professional Proficiency
Arabic	
Native or Bilingual Proficiency	