

Samia Maguedouda BELHADDAD

Invested in Learning about modeling uncertainty through Applied Mathematics & Artificial Intelligence.

Autonomous, Details Oriented & Critical Thinker.

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📍 Algiers, Algeria

Education

Master's in Applied Statistics & Probability

University of Science and Technology Houari Boumediene

2021 - Present

- Time Series Theory, Analysis, Forecasting
- Stochastic Processes & Simulation
- Parametric Stats & Statistical Inference
- Non Parametric Stats & Estimation
- Measure Theory & Stochastic Calculus
- Information Theory & Stats
- Bayesian Inference
- Data Mining
- Biostatistics
- Queuing Theory

Bachelor's Degree in Mathematics & Algebra

University of Science and Technology Houari Boumediene

2018 - 2021

- Algorithms & Data Structures
- Linear Algebra
- Real Analysis, Complex Analysis
- Mathematical Logic
- Functional Analysis & Hilbert Spaces
- Multivariate Analysis
- Abstract Algebra, Fields & Rings theory
- Numerical Analysis
- C Programming
- Differential Equations

WORK EXPERIENCE

Samsung Artificial Intelligence Instructor (July - October 2022)

GoMyCode Algeria

- Ensured the delivery of 9 chapters in Python, Maths, Statistics Machine Learning & Deep Learning
- In charge of mentoring 15 students through 3 diverse projects in Artificial Intelligence.
- Acquired Skills in Teaching, Communication & Advance my technical & soft skills

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 Forecasting using LSTMs

Data Science Content Creator (Summer 2021 Internship)

Ignitus

- Delivered Educational Data Science Notebooks in Machine Learning & Computer Vision.

Content and Community Manager (2020-2021)

Wejehni

- Helped thousands of students answering their concerns about Higher Education

Web Content Creator (08-10/2019)

Sylabs

- Web Content Creation & Wordpress
- Acquired knowledge about Business, Entrepreneurship & Startups

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
- Teamwork

RESEARCH & LEARNING

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

- Analysed State of the art of finite fields & Ring Cryptography
- Explored the applications of Homomorphic Encryption in the current era
- Focused on highlighting the Paillier Cryptosystem

App Enrollment Prediction (08/2021)

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

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

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 Foursquare API
- 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

Full Professional Proficiency

Arabic

Native or Bilingual Proficiency

French

Full Professional Proficiency