




IMEN SMATI


Data Science
Research Engineer

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 researchgate.net/profile/Imen-Smati

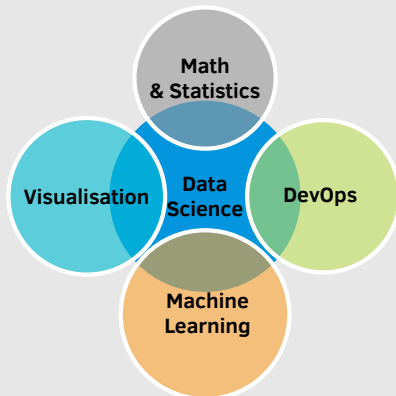
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 [ImenSmatiENSI](https://github.com/ImenSmatiENSI)

Technical Skills

Overview



Programming

0 LOC → 5000 LOC

Matlab • Python • R

JavaScript • SQL • \LaTeX

C • C++ • Java

Education

Ecole Nationale des Sciences de l'Informatique, ENSI

Research Master's degree
Specialization: Data Science
University of Manouba
2020 - 2022 | Manouba, Tunisie

Ecole Supérieure de la Statistique et de l'Analyse de l'Information, ESSAI

Engineer's degree
Specialization: Big Data
University of Carthage
2015 - 2018 | Tunis, Tunisie

Experience

Feb 2021 - Present **Data Science Research** Lab GRIFT, ENSI

- Focused on developing Deep learning models, Classification, testing, certifying
- Projects: Stability criteria for DNN-based algorithms under attacks
Tools: Matlab, Python, Jupyter Lab, ERAN, TensorFlow
Robustness of DNN classifiers based on abstract interpretation
- Implemented an abstraction method against rigid transformations
- Implemented a method for abstracting curves under filtering attacks

Feb 2018 - June 2018 **Trainee: Data Scientist** Ooredoo, Tunis

- Customer Churn Prediction Big Data Management
- Tools: Excel, R/Rstudio, Spark, H2O.

May 2017 - June 2017 **Trainee: Data Analyst** Tunisian Post, Postal Check Center (CCP)

- Statistical study and visualization of accounting data in the financial department
- Tools: Excel, R/Rstudio.

Research

Feb 2022
ContourVerifier : A novel system for Deep Contour Classifiers robustness evaluation

May 2022
A NOVEL SYSTEM FOR DEEP CONTOUR CLASSIFIERS CERTIFICATION UNDER FILTERING ATTACKS

July 2022
Submitting BookChapter:
Integrative System of Deep Classifier Certification : case of Convolutional Attacks

Publications

KHALSI, Rania, SMATI, Imen, SALLAMI, Mallek Mziou, et al. A NOVEL SYSTEM FOR DEEP CONTOUR CLASSIFIERS CERTIFICATION UNDER FILTERING ATTACKS. image, vol. 15, ICIP IEEE, 2022.

R. Khalsi, M. Sallami, I. Smati, and F. Ghorbel, "Contourverifier: A novel system for the robustness evaluation of deep contour classifiers.," in Proceedings of the 14th International Conference on Agents and Artificial Intelligence, vol. 3, pp. 1003–1010, 2022.