Ridha Ouni Data Scientist

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Ⓒ https://www.coursera.org/learner/ridha-ouni

Dedicated and resourceful fresh graduate Telecommunications Engineer specializing in Data Science, with a Master's degree in Information Processing and Complexity of the Living. Proficient in analyzing complex datasets and deriving insights for informed decision-making. Persistent, optimistic, self-motivated, and skilled in effective planning to solve challenges and achieve goals. Eager to leverage expertise in data science to deliver impactful solutions and pursue a career as a Data Scientist.

🎓 Education

Master's Degree , Information Processing and Complexity of Living (TICV), 09-2023 – 12-2024
National School of Engineering of Tunis , Paris Cité University ⤴ Tunis, Tunisia
- Ranked 1st out of 20 students.

Telecommunications Engineering Degree, National School of Engineering of Tunis ⤴ 09-2021 – 06-2024
- Ranked 1st out of 52 students. Tunis, Tunisia
- Specialized In Data Science for Embedded Communications (DASEC)

Two Year Undergraduate Program In Physics-Chemistry for the National Competitive 09-2019 – 06-2021
Entrance Examination to Graduate Engineering School, Faculty of Sciences of Monastir ⤴ Monastir, Tunisia
- Rank 113 out of 1300.

💼 Professional Experience

AI Research Intern (Master's Degree Thesis), Tunisia Polytechnic School ⤴ 08-2024 – 10-2024
- Utilized deep learning models and federated learning techniques for early diagnosis of Tunis, Tunisia
  diabetic retinopathy.
- Leveraged transfer learning in CNN-based architectures such as EfficientNetB5,
  InceptionV3, VGG16, and vision transformers for enhanced model performance.
- Applied various aggregation strategies, including FedAvg and FedProx.
- Integrated AI explainability tools like LIME and SHAP to improve model transparency
  and interpretability.
- Achieved a best global accuracy of 73%, significantly contributing to the early detection
  of diabetic retinopathy.

Data Science intern (End of Studies), Infor Tunisia ⤴ 02-2024 – 06-2024
- Developed a controller to automate forecasting engine selection using Java. Tunis, Tunisia
- Collaborated with team members and provided recommendations for product
  improvements.
- Conducted thorough testing and validation of the forecasting models to ensure accuracy
  and reliability in predictions.

Software Engineering Intern, Talan ⤴ 06-2023 – 08-2023
- Spearheaded the 'Bricolini' project, focusing on reducing DIY waste and promoting Tunis, Tunisia
  environmental sustainability
- Led the development of a mobile application using the Flutter framework.
- Implemented advanced computer vision techniques, such as object detection and image
  classification, with the best model achieving an accuracy of 83%.

Summer Intern, Tunisie Télécom ⤴ 08-2022 – 08-2022
- Recovered and resolved nearly 95% of ADSL disturbances, ensuring minimal downtime Medenine, Tunisia
  and improving service reliability.
- Gained hands-on experience with optical fiber technology by performing key
  operational tasks related to fiber installation and maintenance.

🧠 Skills

Programming Languages (C , C++ , Python, Java, JavaScript, C#, Dart, Matlab, R) • **Data Science** (Numpy, Pandas, Matplotlib, Seaborn, Plotly, … ⎹ Statistics/ Applied Mathematics) • **Machine / Deep Learning** (Scikit learn, TensorFlow, Keras, PyTorch) • **Data Analytics** (SQL/PLSQL, Tableau, Power BI) • **Federated Learning** (Flower, Fedlab) • **Big Data** (Hadoop, Spark) • **Backend Developement** (Flask, Django, Streamlit, JEE, Spring Boot, Mongo DB) • **Mobile Development** (Flutter, Kotlin) • **Infrastructure** (Linux, Docker, Azure) •
Agility and Version Control (Git/Github, Trello) • **Soft Skills** (Flexibility, Teamwork, Versatility, Adaptability, Innovation, Decisiveness, Problem Solving, Autonomy, Presentation Skills, Leadership, Collaboration)

📂 Personal Projects

The Artificial Intelligence In The Service of Autonomous Cars   09-2023 – 12-2023
- Used a Genetic Algorithm to design a bidirectional hyperdirective antenna network.
- Used YOLO V8 for Object detection and instance level segmentation using KITTI dataset.
- Realized an accuracy of 87%.

Chest X-ray (Pneumonia): Classification Model Using Transfer Learning   06-2023 – 06-2023
- Used Transfer Learning in two different structures of CNN: ResNet and VGG
- Remarked that VGG is better than Resnet for Small Datasets.

**Lip Reading of Tunisian Dialect using Machine Learning**   12-2022 – 03-2023
- Collected Tunisian DataBase (videos) and Preprocessed it.
- Extracted Features using OpenCV and DCT and Applied Some Features Selection Techniques.
- Applied machine Learning Models such as KNN and Random Forest.
- Attained an accuracy of 42%.

🌐 Languages

Arabic (Native Language) • French (B2) • English (B2) • German (Beginner) • Mandarin (New)

🪪 Certificates

Deep Learning Specialization ⌁ , AWS Fundamentals Specialization ⌁ , CDOSS Machine Learning With Python ⌁ , Fundamentals of Deep Learning ⌁ , Building Transformer-Based Natural Language Processing Applications ⌁ , Programming Foundations with JavaScript, HTML and CSS ⌁ , Foundations of Project Management ⌁ , Interfacing with the Arduino ⌁

🏠 Volunteering

HUAWEI, Seeds for the future 2024 candidate   07-2024 – 07-2024
- Top 10 out of 28 teams from the North Africa region   Essaouira, Morocco
- Learned and applied entrepreneurship and innovation skills.

IEEE ENIT SB, One year as an active member, and another year as a project manager ⌁   10-2021 – 05-2023
- Contributed to the success of various events as a member of the Logistics and   Tunis, Tunisia
  Organization team.
- Appointed as the Ambassador and Organizer of the IEEE 16th event.
- Developed strong organizational, communication, and leadership skills

G2FOSS & GDSC, Member   09-2021 – 05-2022
- Collaborated with cross-functional teams to successfully plan and execute FOSS Day and   Tunis, Tunisia
  multiple other high-impact club events.
- Collaborated with the Media Team.

🏅 Awards

Achievement Award for Excellence., University of Tunis El Manar   05-07-2024
- Recognized for outstanding academic and extracurricular performance at the University
  of Tunis El Manar.

Talan Tunisie Summer Camp , Top Performer, Talan   31-07-2023

🎻 Passion

Competitive Programming, Reading Scientific Papers, Cooking Tunisian Foods, Football