Dridi Oumaima

Data Science Engineer

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PROFIL

Data Science Engineer specialized in designing, deploying, and optimizing advanced analytical solutions. An expert in machine learning and deep learning, I transform data into strategic insights, guiding the creation of predictive models and efficient data pipelines. Innovation-driven, I contribute to continuous process improvement through constant technological vigilance.

PROFESSIONAL EXPERIENCE

JUNIOR DATA SCIENTIST   11/2023 – 09/2024
TUNIDESIGN   Tunis, Tunisie
- Extraction of textual data from unstructured web sources.
- Data cleaning and integration into a MongoDB database for efficient access and manipulation.
- Developing analytical tools and algorithms to improve research and targeting solutions.

Keywords: TensorFlow/Scikit-learn/Selenium/NLP/MongoDB/YOLO/Darknet

Artificial Intelligence Engineer   02/2023 – 09/2023
Yebni info et comm ⍈   Tunis, Monplaisir
- Design and implementation of a medical image processing system combining advanced MRI image preprocessing with a diverse range of brain lesion segmentation techniques.
- Creation of a data augmentation pipeline using GAN Pix2Pix, enhancing the robustness of the UNet model.
- Providing a user-friendly interface for healthcare professionals, featuring DICOM image import, MRI sequence classification, 2D display with DICOM tags and patient information, application of filters, brain lesion detection, and image export in various formats.

Keywords: PyTorch/Matplotlib/Chan-Vese/K-means/GMM/Laplacian/Canny/Brain Mask/CPU

Engineering Internship   06/2022 – 10/2022
Axia solution ⍈   Sousse, Msaken
- Developed a code to detect non-compliant medical tablets using YOLOv5, ResNet50, Autoencoder, and GAN.
- Deployed a machine learning model with Flask.

Keywords: Google Colab/Neural Networks/Recall/Accuracy/AUC-ROC

Internship Company Integration   06/2021 – 09/2021
Telnet Holding ⍈   Ariana, Ghazala
- Design of a table detection system in scanned images.
- Image labeling with LabelImg.
- Object detection using RCNN and Faster RCNN.
- Performance evaluation with metrics: Precision, Recall, F1-Score.

Keywords: Python/Keras/Numpy/Pandas

EDUCATION

National Engineering Degree in Computer Science   2019 – 2023
Private Higher School of Engineering and Technology ⍈   Ariana, Ghazala

Preparatory Cycle in Physics and Chemistry   2017 – 2019
Faculty of Sciences of Tunis ⍈   Tunis, Tunisie

TECHNICAL SKILLS

- python ,R , Java , CSS , PHP, html
- Machine learning , Deep l earning, NLP
- Hadoop , Apache Spark , Apache hive
- SQL , NoSQL ,MongoDB
- Linux
- Flask
- Docker , Github/Git
- Power BI
- Spring Boot
- Microsoft Azure services

LANGUAGES

| Arabic | ● ● ● ● ● | French | ● ● ● ● ○ |
| English | ● ● ● ● ○ | | |

ACADEMIC PROJECTS

NLP Project
Recommendation System
- Knowledge extraction from an unstructured corpus, specifically PMBOK 6.
- Preprocessing of PMI frameworks using NLP & ML.
- Domain ontology modeling.
- Semantic analysis.

Data Science Project
Used Car Price Estimation Application
- Data collection using Beautiful Soup and data cleaning.
- Data visualization through a dashboard via Power BI.
- Deployment of a client-specific application using Flask.

Devops project
Pipeline Creation
- Creation of the Spring deliverable from a Dockerfile.
- Uploading the created image to DockerHub/Nexus.
- Simultaneously launching the image containing the Spring deliverable and MySQL using Docker Compose.
- Testing the application services with Postman (static testing with SonarQube).

Event Management
Development of an event management task.
- Desktop component (Java), Web component (Spring Boot), Mobile component (Codename One).

INTERESTS

Kickboxing | Reading | Theater