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Malek Bezzina

Portfolio: malekbezzina.netlify
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Passionate about **Machine Learning** and **Data Science**, I am an ICT Engineering student in **UNIPD**, actively seeking opportunities to gain hands-on experience in the field. As an ML enthusiast, I love nothing more than tackling new challenges and honing my skills, and I'm excited to bring my quick learning abilities and team player mentality to any project or team.

EDUCATION

ICT For Internet And Multimedia Masters   **2022 — Present**
University of Padova   *Padova, Italy*
- *Focus Area:* Ict For Automotive And Domotics, Internet Of Things And Smart Cities, Digital Signal Processing, Computer Vision, Telecommunication Principles, Internet

Erasmus Plus   **2021 — 2022**
University of Padova & SUP'COM   *Padova, Italy*
- *Focus Area:* Machine learning, Neural Networks and Deep Learning, Foundation of Databases, Human Data Analytics, High-Level Programming(Python)

Telecommunication Engineering   **2019 — 2022**
Higher School of Communications of Tunis (SUP'COM)   *Tunis, Tunisia*
- *Focus Area:* Information and communication technology engineer training. Estimation, Modeling, Optimization stochastic processes, and Machine Learning

National Competition For Entrance to Graduate Engineering School   **2017 — 2019**
Preparatory Institute for Engineer Studies of Tunisia (IPEIT)   *Tunis, Tunisia*
- *Focus Area:*Mathematics, Physics, Python and Algebra. National Rank : 85/1600.

PROFESSIONAL EXPERIENCE

Student Job   **Oct 2022 — Present**
Infineon Technologies   *Padova, Italy*
- Development of a **web app** for automating pattern recognition, allowing users to construct **clustering** models and **predict** labels for improved **data analysis**.

Skills: Web Development · Semiconductors · Python (Programming Language) · Computer Vision · Machine Learning

Machine Learning Intern   **May 2022 – Sep 2022**
Infineon Technologies   *Padova, Italy*
- Design and development of a **model** that automatically recognizes patterns with **machine learning** for post-silicon measurements.

Skills:Semiconductors · Python (Programming Language) · Computer Vision · Machine Learning

Natural language processing Intern   **July 2021 – Sep 2021**
Logis Technologies   *Tunis, Tunisia*
- **Automated** property announcement descriptions using **user data** input with a real estate **description generation** process.

Skills:NLP, NLG, TEXTGENERATION, BERT, KEYWORDTOTEXT, T5, K2T, Python (Programming Language)

Computer Vision Intern   **Aug 2020 – Sep 2020**
AVIDEA   *Tunis, Tunisia*
- Creating a system capable of **detecting** the shape, position, and type of damage in a car and **recognizing** damaged car parts, and making **predictions** on the degree of severity.

Skills:Python, Tensorflow , CNN, Mask RCNN, YOLO v3

SKILLS

Programming Languages	Python, C, C++, Java, HTML, CSS
Databases	Oracle, MySQL.
Softwares	Visual Studio Code ,Matlab, Git, Android Studio, VMWare Workstation.

AI & PYTHON PROJECTS:

- **Autonomous Vehicle Navigation:** Building an **Autonomous** vehicle, which uses several Advanced Driver-Assistance Systems (ADAS), using **DQN algorithm** and CARLA simulator to observe the car in its environment.
    Skills: Python, TensorFlow, Deep Reinforcement Learning, DQN , Carla
- **Bone age prediction from hand radiographs:** By adjusting and enhancing the usual state-of-the-art **deep learning** techniques, predict bone age from hand radiographs.
    Skills: Convolutional Neural Network, Inception, EfficientNet, Residual NeuralNet, Python, TensorFlow, TF Keras
- **Handwritten Digits Classification:** Create, Train, and Evaluate a **Neural Network** model that will be able to **predict** digits from hand-written images with a high degree of accuracy.
    Skills: Python, TensorFlow, Deep Reinforcement Learning, DQN , Carla