



# Malek Bezzina

## ICT Engineering Student

### EDUCATION

#### University of Padova

*ICT For Internet And Multimedia Masters*

2022 – Present

**Focus Area:** Ict For Automotive And Domotics, Internet Of Things And Smart Cities, Digital Signal Processing, Computer Vision, Telecommunication Principles, Internet

#### University of Padova & SUP'COM

*Erasmus Plus*

2021 – 2022

**Focus Area:** Machine learning, Neural Networks and Deep Learning, Foundation of Databases, Human Data Analytics, High-Level Programming(Python)

#### Higher School of Communication of Tunis (SUP'COM)

*Single cycle telecommunications engineering masters*

2017 – 2022

With pre-engineering studies in the Preparatory Engineering Institute of tunis.

**Focus Area:** Information and communication technology engineer training

We learn Estimation, Modeling, Optimization stochastic processes, and Machine Learning

### WORK EXPERIENCE

#### Infineon Technologies Italy

*Machine Learning Working Student*

May 2022– Apr 2023

Design and development of a **web app** for automating pattern recognition, allowing users to create **clustering** models and **predict** labels for an improved **data analysis**.

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

#### Logis Technologies Tunis

*Natural language processing Intern*

July 2021–Sep 2021

**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)

#### AVIDEA Tunis

*Computer Vision Intern*

Aug 2020–Sep 2020

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

### 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

### RESEARCH PAPER

Accepted Industrial paper in the 28th IEEE European Test Symposium 2023 :

- Automatic Pattern Recognition with Machine Learning For Post Silicon Measurements

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.

### CONTACTS

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📍 Padova, Italy

🌐 malek-bezzina

🔗 malekbezzina.netlify.app (**Portfolio**)

### LANGUAGES

- **Arabic:** Mother tongue
- **French:** Bilingual
- **English:** Excellent (TOEIC Score 980)
- **Italian:** Intermediate

### SKILL

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

### CERTIFICATIONS

- **Coursera**
  - Neural Networks and Deep Learning
  - Machine Learning
  - Convolutional Neural Networks
  - AI For Everyone
  - Front-End Web UI Frameworks and Tools: Bootstrap 4
- **Udemy**
  - Complete Website & CMS in PHP & MySQL From Scratch!!
  - Build a chatbot for your business