

# Malek Bezzina

## Data Analyst

### Profile

A motivated, flexible, and open-minded person looking for chances to use and expand my expertise in **Data science** and **Machine Learning**.



### Education

#### ICT For Internet And Multimedia Masters, University of Padova, Italy

2022 — 2024

Focus Area: ICT For Automotive And Domotics, Internet Of Things And Smart Cities, **Statistics**, Computer Vision, Telecommunication Principles, Internet

#### Erasmus Plus, University of Padova & SUP'COM, Padova, Italy

2021 — 2022

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

#### Telecommunications Engineering masters, Higher School of Communication of Tunis - SUP'COM,

2017 — 2022

Focus Area: Cloud, **Statistical Modeling**, Development, Programming, **Data science**

### Employment History

#### Building the Next-Gen Search Engine with Large Language Models & Retrieval Augmented Generation at Infineon Technologies, Munich, Germany

January 2024 — August 2024

- Designed and deployed a search engine based on Large Language Models (**LLM**) that uses Retrieval Augmented Generation (**RAGs**) to improve **data retrieval** and **query responses**.
- Analyzed Supply Chain data, **cleansed datasets**, and developed **visual analytics** to effectively **predict** the bullwhip effect, **optimizing forecast** precision.
- Oversaw the new interns thorough training and onboarding.

**Skills:** *Python, LLM, GenAI, Retrieval Augmented Generation, forecasting*

#### Working Student: Machine Learning Engineer at Infineon Technologies, Padova, Italy

November 2022 — April 2023

- Developed **interactive software** for engineers to streamline their use of machine learning models, **enhancing operational efficiency**.
- Refined software functionality and **data processing** based on continuous user feedback, boosting user satisfaction and system reliability.
- Enhanced **data analysis** efficiency, enabling more informed strategic decision-making.

**Skills:** *Software Development, dash, plotly, Data Processing, Python*

### Details

📍 Munich, Germany

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✉️ [malekbezzina24@gmail.com](mailto:malekbezzina24@gmail.com)

### Links

LinkedIn: [malek-bezzina](#)

Portfolio:

<https://malekbezzina.netlify.app/>

### Skills

Programming Languages:

Python, C, C++, HTML, CSS

Databases:

Oracle, MySQL

Software:

Visual Studi Code, MATLAB, Git,

Android Studio, VMWare

Workstation

### Certificates

Coursera:

- Finetuning Large Language

Models

-LangChain Chat with Your Data

-Neural Networks and Deep

Learning

Linkedin Learning:

A Beginner's Guide to Public

Cloud Platforms

## Master thesis: Automatic Pattern Recognition with Machine Learning For Post Silicon Measurements at Infineon Technologies, Padova, Italy

May 2022 — October 2022

- Developed machine learning software for **automatic pattern recognition** in post-silicon measurements, enhancing **outlier detection** capabilities.
- **Data Pre-processing** and **analysis**, including **sourcing and cleaning**, to support robust pattern recognition algorithms.
- Implemented **continuous labeling** for image recognition, improving **accuracy** with historical **data integration**.

**Skills:** Semiconductors, Python, Computer Vision, ML/DL, Data analysis

## Internship: Natural Language Processing Engineer at Logis Technologies, Tunis, Tunisia

July 2021 — September 2021

- Implemented a **machine learning** based **text generation** software to automate real estate descriptions, **enhancing listing efficiency**.
- Conducted **web scraping** to **collect data** on property descriptions, forming the basis for **model training and development**.
- Designed a user-friendly interface that simplified **keyword input** for users, streamlining interactions and **improving user experience**.

**Skills:** NLP, NLG, Text Generation, UI Design, BERT, T5, K2T, Python

## Internship: Computer Vision Engineer at Avidea, Tunis, Tunisia

August 2020 — September 2020

- Led **image annotation** for car damage, setting the stage for model training with diverse damage types.
- Built and refined a **computer vision** model to accurately **detect** car damage severity.
- Enhanced **model precision** by varying damage **classifications** during testing, **improving** predictive performance.

**Skills:** Image Annotation, TensorFlow, CNN, Mask RCNN, YOLO v3, Python

## 📄 Research Paper

### Automatic Pattern Recognition with Machine Learning For Post Silicon Measurements,

May 2023

Accepted Industrial poster in the 28th IEEE European Test Symposium 2023

## Languages

Arabic	Native
English	TOEIC C2
French	B2
Italian	A2
German	A1