



Personal details

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Skills

Programming Languages: Python/
c/ java/ c++

Data Structures: Numpy/ Pandas

Storage and Databases: MySQL

Image Processing: PILLOW/OpenCV

Visualisation: Matplotlib/ Seaborn/
TABLEAU Software

Scientific Computing: Scikit Learn

Supervised Learning technologies

Unsupervised Learning
technologies

Deep Learning: TensorFlow, Keras
(Convolutional Neural Networks)

STM32/ Arduino

SolidWorks/ Catia/LabVIEW

Git

Languages

English

French

GERMAN (Basic)

Saifeddine Baccouche

Automation and Industrial Computing engineering student at the National Institute of Applied Sciences and Technology, specialized in Artificial Intelligence.

Certificates

Certification in "Data Science": May 2022
Extended Bootcamp (offered by Gomycode) covering all the skills that needs a data scientist + application examples such as :

- Applying **transfer learning** using the "VGG16" model trained with the "ImageNet" dataset to differentiate between dogs and cats.
- Creation of a **CNN model with Keras** to predict whether a person is happy or not.

Certification in "Artificial Intelligence development": Jun 2019
Training offered by GOMYCODE after winning 1st prize in a robotics competition.

- Creation of an ML model to predict vehicle prices.

Employment

Summer internship Jul 2022 – Present
Revampir, Tunis
"Zinki" is an AI/ML application which enables publishers, academics, governments, intellectuals and others to convert their scanned documents either manuscript or typescript into machine-readable text.

Tasks:

- Development of a **Deep Learning CNN** based model to adjust rotated scanned documents using **Keras** as a framework and training the models using **GPUs**.
- Creation of a dataset by **manually labeling 1248 images**.
- Creation of a **web application using Streamlit** to allow other users to label images by selecting the right deviation angle of scanned documents.

End of year project Feb 2022 – Jun 2022
INSAT, Tunis
We realised a "SMART HOUSE" using **Arduino** and developed a mobile app using **MIT App Inventor** to commande the microcontroller from distance.

Active member Jan 2019 – May 2021
Aerobotix Club, Tunis
Participation in 8 robotics competitions (one time: 1st Prize + one time: 3rd Prize)

Education

Engineering cycle in Automation and Industrial Computing Sep 2020 – Present
National Institute of Applied Science and Technology, Tunis

Preparatory cycle Sep 2018 – Jul 2020
National Institute of Applied Science and Technology, Tunis

- 1st year preparatory cycle in mathematics /physics /computer science
- 2nd year preparatory cycle in Automation and Industrial Computing

Baccalaureat diploma Sep 2017 – Jun 2018
pilot high school, Sousse
department: technical sciences