

# DAVID EL MALIH

Research Data Scientist Student | Computer Vision Enthusiast

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📍 Paris, FR

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🐙 @delmalih

🔗 [delmalih.github.io](https://delmalih.github.io)

## EXPERIENCE

### Research Data Scientist Intern

#### Yoobic

📅 Sep 2018 – Aug 2019

📍 Tel Aviv, IS & Paris, FR

- **Object detection** - Faster RCNN reaching 95% mAP at inference time
- **Segmentation** - Shelves Detection on retail stores images - U-Net reaching 98% accuracy at inference time
- **One-shot learning** - Image classification using one image per category - Triplet Network reaching 90% accuracy at inference time
- **Image processing**: Perspective correction and image stitching algorithms

**Techs** : Python, Tensorflow, Keras, OpenCV, Pytorch, GCP Machines

### Software Engineer

#### Paris Digital Lab

📅 Jan 2018 – Jul 2018

📍 Paris, FR

##### Data Science Project @ RATP Group

- Anomaly detection from given daily logs on a subway line
- Unsupervised pattern recognition in unstructured log-data

**Techs** : Python, Tensorflow, Keras, LSTMs, Flask, ReactJS

##### Chatbot Project @ IterimCo

- Development of a recruitment chatbot that pre-qualifies candidates
- Development of an admin dashboard to follow and control chatbot's actions

**Techs** : Python, Flask, Dialogflow, Node.js, ReactJS

### Data Scientist Intern

#### Valeo Group

📅 Jun 2017 – Jul 2017

📍 Paris, FR

- **Focus adjustment** algorithm on infrared camera
- Development of an **embedded facial recognition** algorithm

**Techs** : Python, Tensorflow, OpenCV, Siamese Networks

## RELEVANT PROJECTS

- **Breast Cancer Detection** on mammograms - Reaching a mAP of 97%.
- **One-Shot Image Classifier** - Reaching an accuracy of 90%.
- **Shelves Detector** using segmentation - Reaching a pixel accuracy of 98%
- **Unsupervised Anomaly Detection** in unstructured daily log-data of a subway line - Using LSTMs - Reaching 96% accuracy
- ... (More on [delmalih.github.io](https://delmalih.github.io))

## EDUCATION

### M.Sc in Artificial Intelligence

#### Ecole Centrale Paris

📅 2019 - 2020

📍 Paris, FR

**Relevant Courses**: Deep Learning in Practice, Decision Modeling, Visual Computing, Excellence in Game Theory, Advanced Medical Imaging, RL, NLP

### M.Eng in Applied Mathematics

#### Ecole Centrale Paris

📅 2016 - 2020

📍 Paris, FR

- **Mathematics** : Statistics, Probability, Functional analysis, Large Scale Optimization, Stochastic process, Time Series
- **Data Science** : Machine Learning, Deep Learning, AI, Reinforcement learning, NLP
- **Software Engineering** : Software development & OOP (Python & Java), Big data & Database Management (SQL, MongoDB, Hadoop, Spark)

### Intensive Scientific Courses

#### Lycée Janson de Sailly

📅 2014 - 2016

📍 Paris, FR

Two intensive years of scientific course to prepare the selective entrance exams for the top engineering schools in France

## CERTIFICATES & COURSES

🌟 **Machine Learning by Stanford University on Coursera**  
[Certificate ID: 5ESK7HAM48SE](#)

🌟 **Deep Learning Specialization by deeplearning.ai on Coursera**  
[Certificate ID: 9JG5RVYFBVGM](#)

## SKILLS

Python	Numpy/Scipy	Pandas	OpenCV		
Tensorflow	Pytorch	Keras	Flask	JavaScript	
ReactJS	Node.js	C/C++	Java	Docker	SQL
MongoDB	Neo4j	Hadoop	Spark	GCP	Git

## LANGUAGES

French  
English  
Hebrew

Native  
Full professional proficiency  
High working proficiency