DAVID EL MALIH

Research Data Scientist Student | Computer Vision Enthusiast

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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

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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)

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	Native
English	Full professional proficiency
Hebrew	High working proficiency