DAVID EL MALIH

Entry-Level Data Scientist | Computer Vision Enthusiast
Looking for new opportunities

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EXPERIENCE

Research - Data Scientist Intern
TheraPanacea

📅 Apr 2020 – Oct 2020   📍 Paris, FR

- **Segmentation by registration** - Developed custom registration model (rigid and deformable) to perform 3D volumes segmentation by registering them onto some atlases and using ensembling techniques - Reaching 80% dice score on small organs (parotid)

Techs : Python, Mxnet

Research - Data Scientist Intern
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📅 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

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)

CERTIFICATES & COURSES

- ✹ **Machine Learning by Stanford University on Coursera**
  Certificate ID: 5ESK7HAM48SE

- ✹ **Deep Learning Specialization by deeplearning.ai on Coursera**
  Certificate ID: 9JG5RVYFBVGM

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)

SKILLS

Python | Numpy/Scipy | Pandas | OpenCV
Tensorflow | Pytorch | Mxnet | Keras | Scikit
JavaScript | ReactJS | Node.js | Flask | Java
Docker | SQL | MongoDB | Spark | Git

LANGUAGES

French — Native
English — Full professional proficiency
Hebrew — High working proficiency