Maxence Boels

MSc Computer Vision, Robotics and Machine Learning
University of Surrey, UK
"I believe in learning new things every day, or making machines learn them."

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GitHub
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SELECTED PROJECTS

Biomedical Image Segmentation| Deep Learning — February 20
- Trained and tested the U-net model to segment medical images of membranes.

Keywords: U-Net, CNN, Data Augmentation, DRIVE dataset.

Breast Cancer Prediction| Deep Learning and Computer Vision — January 20
- Predicted malignancy in breast cancer screenings before biopsy.

Keywords: ResNet, CNN, Transfer Learning, Data Augmentation and Registration.

Visual Search | Computer Vision and Image Processing — November 19
- Developed an image classifier able to search for similar images in a large data set.

Keywords: PCA, Edge and Feature Detection, Descriptors, Histogram of Oriented Gradients.

WORK EXPEREIENCE

08/2018 – 03/2019 — **Data Scientist** Intern, Deloitte France, Paris
- Developed Predictive Models using Machine Learning.
- Implemented an ETL and Business Intelligence tool in SQL Server and Tableau.

01/2016 – 03/2016 — **Data Scientist** Intern, Air, Brussels
- Modeled Customer Segmentation for Targeted Marketing.
- Developed a Churn Prediction model.

01/2015 – 03/2015 — **Data Analyst** Intern, Air, Brussels
- In charge of the Market Analysis and Reporting.
- Presented Strategic Recommendations to the CEO.

ACADEMIC QUALIFICATIONS

10/2019 – 09/2020 — **MSc in Computer Vision, Robotics and Machine Learning,** University of Surrey
Electrical and Electronics Engineering, Faculty Ranked 2nd in the UK by The Guardian University Guide 2020.
Course Highlights: Computer Vision, Robotics, AI Programming, Deep Learning, IoT, Advanced Signal Processing, Satellite Remote Sensing, Speech Recognition, Thesis: "Predicting malignancy in breast cancer using Deep Learning" (software).

08/2017 – 07/2019 — **MSc. in Data Science and Advanced Analytics,** University Nova IMS of Lisbon
Course Highlights: Data Mining, Econometrics, Database Systems, Big Data, Machine Learning, Evolutionary Programming, Statistics for Data Science.

08/2013 – 06/2017 — **Bachelor in Economics and Management**, ICHEC Brussels Management School
Course Highlights: Economics, Finance, Statistics, Accounting, Marketing, Management, Mathematics.

SKILL SET

Tools:
Scikit-learn, PyTorch, OpenCV, TensorFlow, Caffe, ROS.

Certifications:
Deep Learning Nano-Degree Program, Udacity
Biomedical Imaging in Python + 10 others, Data Camp
Introduction to Medical Imaging, Udemy

Future projects:
ROS Reinforcement Learning, Medical image segmentation.
Writing articles about my projects and experiences.

PROGRAMMING LANGUAGES

Language	Level
Python	advanced
Matlab	advanced
SQL	proficient
C++	familiar
R	familiar

LANGUAGES

Language	Level
English	fluent (C1+)
French	native
Dutch	fluent (C1+)
Spanish	limited proficiency (B2)
Portuguese	basics (A2)

SOFT SKILLS

Skill	
Growth mindset	Online courses/degrees, self-motivated.
Open-minded	Meeting new people, cultures, places.
Team spirit	Chief scouts, group sports.