MIOULET LUC

Cloud Machine Learning Engineer



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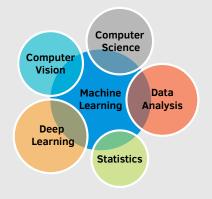
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Skills ——

Overview



Programming

Knowledge -

Neural networks - VGG, ResNet, WGAN, BLSTM-CTC

Machine learning - Random Forests, XGBoost.

Recommender systems - ALS, KNN-items. **Languages** - Python, C++. **Cloud services** - AWS Glue, Athena, S3,

EMR, EC2, DynamoDB, Sagemaker. **Others** - Docker, terraform.

Languages ———

French - Mother tongue. English - Mother tongue. Italian - Level B2.

Experience

Jul 2018 -Now

Senior Machine Learning Engineer

Helixa.ai, Italy

- Mission: Bring AI to market research.
- Built a recommender systems (ALS) for inferring latent interests of users.
- Applied computer vision knowledge (thresholding techniques) to discover extremely active social network users.
- Designed and maintains a data processing pipeline for weekly data production used by customers.
- **Tools**: pandas, sklearn, scipy, implicit, pyTorch, pySpark, EMR, DynamoDB, AWS Batch, Docker.

Sep 2016 -Jun 2018

Machine Learning Research Engineer

IMRA Europe SAS, France

- **Mission**: Investigate niche research areas for the automotive industry.
- Developed a pedestrian recognition system using 3D LIDAR data.
 Benchmarked on several public datasets (STC, KITTI). Published results in IVS 2017.
- Obtained a patent on Method for Predicting Multiple Futures
- **Tools**: C++, Caffe, pyTorch, tensorflow, OpenCV, PCL, pandas, Gitlab.

Aug 2015 -Aug 2016

Software developer

Astek SE, France

- Mission: Contractor For Amadeus R&D Centre in Nice, France.
- Worked in a team of 7 persons in charge of transforming an old monolithic system into a distributed system.
- Developed, tested and deployed several terminal commands according to schedule for a production system.
- Provided scripts to migrate historical log files to a database oriented model.
- Tools: C++, Boost, SQL, Python, git.

Feb 2015 -Aug 2015

Teaching Assistant

University of Rouen, France

- Mission: Instruct L1 and L2 students.
 - Taught tutorial and practical classes on 8086 assembly for under graduates
 - Taught Machine learning practical classes for postgraduates.

Research

Feb 2012 -

PhD: handwriting recognition using recurrent neural networks

University of Rouen, France

Aug 2015

- · Compared multiple fusion strategies for BLSTM-CTC networks.
- Built a system for keyword detection under-uncertainty in handwritten documents.
- Built a system for automatic language identification in handwritten documents.
- Tools: Python, C++, rnnlib, OpenCV, CLD2.

Aug 2009

Internship: handwriting grapheme recognition using denoising auto-encoders Uni

University of Rouen, France

- · Denoising auto-encoders for handwriting recognition
- Tools: C++, Torch 5.

Patent

Mioulet, L., Abad, F., Tsishikou, D. and Bendahan, R. . Method for Predicting Multiple Futures. Patent No./ 18306623.2 – 1209.

Publications

Mioulet, L., Tsishikou, D., Bendahan, R. and Abad, F. . Efficient Combination of Lidar Intensity and 3D Information by DNN for Pedestrian Recognition with High and Low Density 3D Sensor. In *International Vehicle Symposium*, 2017.

Mioulet, L., Garain, U., Chatelain, C., Barlas, P. and Paquet, T. . Language Identification from Handwritten Documents. In *International Conference on Document Analysis and Recognition*, 2015.

Garain, U., **Mioulet, L.,** Chatelain, C. and Paquet, T. . Unconstrained Bengali Handwriting Recognition with Recurrent Models. In *International Conference on Document Analysis and Recognition*, 2015.

Bideault, G., **Mioulet, L.,** Chatelain, C. and Paquet, T. . Benchmarking discriminative approaches for word spotting in handwritten documents. In *International Conference on Document Analysis and Recognition*, 2015.

Mioulet, L., Bideault, G., Chatelain, C. and Paquet, T. . BLSTM-CTC Combination Strategies for Off-line Handwriting Recognition. In *International Conference on Pattern Recognition Applications and Methods*, 2015.

Bideault, G., **Mioulet, L.**, Chatelain, C. and Paquet, T.. A Hybrid BLSTM-HMM for spotting Regular Expressions. In *International Conference on Pattern Recognition Applications and Methods*, 2015.

Mioulet, L., Bideault, G., Chatelain, C., Paquet, T. and Brunessaux, S. . Exploring multiple feature combination strategies with a recurrent neural network architecture for off-line handwriting recognition. In *Document Recognition and Retrieval*, 2015.

Mioulet, L., Breckon, T.P., Mouton, A., Liang, H. and Morie, T. Gabor Features for Real-Time Road Environment Classification. In *International Conference on Industrial Technology*, 2013.

Education

2010 -	MSc Computational Software and Techniques in Engineering University of Cranfield, United Kingdom
2011	Machine learning, image processing, signal processing (C++, C, OpenCV).

2006 - Engineering Diploma
Information Systems Architecture
2011 Machine learning, image processing, signal processing.
Machine learning, statistics, software engineering (C++, C, Matlab, Java).