REMI DUPONT

STUDENT IN MACHINE/DEEP LEARNING

FINAL MASTERS INTERNSHIP, FROM MARCH 2019

PERSONNAL PROFILE:

As someone who is passionate about technology, especially machine/deep learning, I love mathematics, and software engineering, I am someone that is hard working, rigorous and I like to see things through. I enjoy working in a team setting. Having lived in five different countries and cultures for both work and education, I have gained personal skills that allow me to adapt to the situation and work well independently. I am fluent in French (native) and English.

WORK EXPERIENCE

DEEP LEARNING RESEARCH ASSISTANT
BNP Paribas AI Lab, Germany | September 2018- feb 2019

- Implementing new neural network architectures for sales predictions, or NLP
- Working as a team to understand the theory behind deep neural networks
- Programming in an efficient way, conducting machine learning experiments

MACHINE LEARNING INTERN
IIHNordic, Copenhagen | Feb-August 2018

- Programming ML-models using Tensorflow, Scikit learn, Google Cloud ML to analyse, present and predict data.
- Data preprocessing: SQL, Apache beam, datalab, python (pandas)
- Reading research papers to implement various models

COMPUTER PROGRAMMER (FREELANCE)
Paris | August-October 2017

- Communication software for Newletters: Amazon web service, MySQL, Java, Bash, HTML/CSS , PHP,...
- Tailoring to individual customer needs
- Work independently

PRIVATE TUTOR IN MATHEMATICS
Troyes | April-June 2017

- Communication and teatching skills
- Ability to understand people

TECHNICIAN ASSISTANT, IRELAND
Tools & plastics | August 2015

- Mechanical skills
- Adaptating to a new environment

JOB IN AN ASSEMBLY LINE
Cargill, Orléans | July 2014

COMPUTING SKILLS

Big Data programing:
- Tensorflow/Keras /Pytorch
- Python (scikit, numpy, pandas,...)
- R
- Background in mathematics: probability, linear algebra, logic,...
- Database (SQL)

Other Programming skills:
- Java
- C++ / C
- Android Studio

Web technology:
- HTML/CSS
- PHP
- Computer security
- Mathematics and networks
- Signal processing
- Webmaster

Administration
- Linux environment (bash)
- Amazon Web Service
- Google cloud-ml

Hardware:
- Arduino / Raspberry pi

LANGUAGE SKILLS

French (mother tongue)
English (24 month abroad)
Spanish (B1 European level)

OWS PROJECTS

Github: https://github.com/remidpnt
Fablab creation at UTT (IT part)
build a quadcopter Eachine 250
build a 3D printer
raspberry pi own web-server
International student contest: "24 hours to innovate"

France-Denmark, 1024 km on bicycle
2 half-marathons, 10 km in 47 min
Parkour

IMPLEMENTING SEVERAL DEEP LEARNING ARCHITECTURES:

AWD_LSTM
CNN
XGBoost with neural network
Shallow neural network with Naive baises regularisation
Gaussian process

BLOGPOSTS

Blogpost and code on my github:

How to pretrain a state of the art NLP classifier for transfer learning
https://remidpnt.github.io
/NLP_transfer.html

Use a pretrain VGG network for style transfer
https://remidpnt.github.io
/style_transfer.html

CONTACT

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EDUCATION

SEMESTER OF STUDY IN DENMARK, NOTHERN EUROPE
South Denmark University, Odense | fall 2017

Lectures about big data, parallel computing, Linux, sensors technology
6 months in English
Intercultural background with Erasmus students from all around Europe and Denmark

SEMESTER OF STUDY IN CHINA
Shanghai University | spring 2016

Lecture in french, english, chinese about history, maths, electronic , intercultural management.
Huge improvement regarding my adaptation skills

UNIVERSITY OF TECHNOLOGY OF TROYES, ENGINEERING SCHOOL
Troyes | Since September 2014

2 years in preparatory class, where I had a lot of lecture in theoretical mathematics, physics, chemistry, English, programming,.. and then specialization in electrical and software engineering

EXTERNAL EDUCATION

To improve in machine learning, I took some online courses for futher developement and specialisation:

FASTAI PRACTICAL DEEP LEARNING FOR CODERS / CUTTING EDGE DEEP LEARNING
https://www.fast.ai/ | Jeremy Howard

-A practical approach to deep learning state of the art techniques in 2018
-Natural language processing, image recognition, style transfer, GANs, image segmentation
-Currently implementing some of theses models on my deep-learning computer.

STANFORD CS224N: DEEP LEARNING FOR NATURAL LANGUAGE PROCESSING

http://web.stanford.edu/class/cs224n/ | Richard Socher, Christopher manning

17 lectures, 3 mathematics and code assignments, 1 final project
Description:
Introduction to cutting-edge research in deep learning applied to NLP. On the model side we will cover word vector representations, window-based neural networks, recurrent neural networks, long-short-term-memory models, recursive neural networks, convolutional neural networks as well as some recent models involving a memory components. Assignment on my github: https://github.com /remidpnt/CS224n_DeepLearning_for_NLP

PYTHON MACHINE LEARNING - SECOND EDITION
PACKT | Sebastian Raschka , Vahid Mirjalili

A practical approach to key frameworks in data science, machine learning, and deep learning
Using the most powerful Python libraries to implement machine learning and deep learning: Tensorflow-Tensorboard, scikit decision tree, random forest, KNN, LDA,, panda preprocessing, ...

REFERNCES AVAILABLE UPON REQUEST