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RESEARCH ENGINEER IN ARTIFICIAL INTELLIGENCE

From October

I have a Master in Artificial Intelligence and Advanced Visual Computing from École Polytechnique and had job experiences as a Data Scientist and as a Deep Learning researcher. I am currently looking for job positions as an Engineer/Researcher in Deep Learning or Machine Learning.

Education

2019-2021 — **École Polytechnique (France)**
Master in Artificial Intelligence and Advanced Visual Computing

This research-oriented program is at the heart of digital science and its latest, most promising applications. Its curriculum comprises two complementary branches, namely Artificial Intelligence and Visual Computing. The first branch takes into account statistical learning and data analysis, while the second looks at 3D computer graphics, virtual and augmented reality, multimodal interaction, computer vision, robotics, and 3D manufacturing. The program offers high-level scientific classes taught by faculty from École Polytechnique and partner companies.

2014-2017 — **Università di Padova (Italy)**
Bachelor in Computer Science

This course of study is certainly the one with the greatest IT content: about 2/3 of the 3 years is made up of strictly computer courses and activities, while the remainder concerns the mathematical knowledge indispensable for a computer scientist. Traditional topics include: C ++ and Java programming, algorithms and data structures, databases, operating systems and computer networks. There are also courses on wireless networks, Internet and web technologies, XML, multimedia and IT security.

Experience

Apr 2021 - Sept 2021 — **INRIA (France)**
Deep Learning Researcher

This internship was about finding a way to detect the wrong predictions from a feedforward Deep Neural Network classifier, by analyzing the behavior of groups of its activated units. I show that it is possible to and propose a framework to mine units' values correlated to the correct and wrong classifications. Some previous works done on Convolutional Neural Networks have demonstrated through interpretation of the units' values, the existence of specific units correlated to a correct classification of an image, while others previous works on the misclassification detection were done by analyzing the level of uncertainty of the prediction. I propose a method that is an extension of the previous works: a misclassification detection independent from the type of DNN classifier and from the prediction uncertainty, but dependent on the complexity of the

Skills and Endorsement

classifier. This method consists of using the power of DNN models to learn non-linear relationships between the input and the prediction, and mine the units' values correlated to the correct and wrong classifications in order to detect future mispredictions.

Apr 2020 - Sept 2020 **Amadeus SAS (France)**
Data Scientist

5 months internship at Amadeus. The project was completed successfully and aimed to find a machine learning and a deep learning model able the forecast the Customer Lifetime Value based on travelers' characteristics and purchase behavior.

2018-2019 **SOGEA S.R.L (Italy)**
Software developer

Permanent job where my main tasks were to develop efficient desktop applications and build management systems for more than 100 customers of different industries.

2018-2018 **SOGEA S.R.L (Italy)**
Software developer

3 months internship about developing an efficient desktop and tablet application for Imperial Fashion to manage their clothes production.

2017-2018 **Studio Com.unica (Italy)**
Web developer

Project contract as a full stack developer inside the startup. I brought my contribution to the project Mode in term of system development.

Main Programming Languages and Frameworks: **C++, Python, Java, SQL, MongoDB, C#, Tensorflow, Pytorch**

Languages: **French (C2), English (B2), Italian(C2)**