

ALA EDDINE AYADI

Data scientist, ICT engineer student , Kaggle Expert and Speaker

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EXPERIENCE

Data scientist at Instadeep

📅 October 2017 – Present 📍 Italy (remote) & Tunis

- Advanced deep reinforcement learning models to efficiently solve complex and high dimensional problems .
- Predictive Analysis and demand forecasting to improve the efficiency of electronic taxi dispatching systems in order to be able to predict how long a driver will have his taxi occupied.
- Predict a very sophisticated client behavior and identify areas of strength for some products using deep learning and recommender systems in an imbalanced, Multi-class and time series problem.
- Technologies used:
Python, Tensorflow, Keras, Pandas, Xgboost, LightGBM, Open.AI .

Intern at Infor , Demand Management team

📅 July 2017- August 2017 📍 Tunis , Tunisia

- Help retailers grow their analytics capabilities and increase the quality of data-driven decisions throughout their business and diagnose and address issues, to get and keep the forecasts in top shape.
- Create a standard data profiling tool (Exploratory Data Analysis) that serves for Data description , visualization and Constraints validation.
- Technologies used:
Python, Tableau 10, Logicblox, AWS, bitbucket, Factorization machine.

PROJECTS

- Final Study Project: Deep Reinforcement Learning , Learning to run. Investigate the advantages of applying DRL to high dimensional system and address roadblocks in the application of DRL techniques to real systems. the basic task is to develop an intelligent controller to move and navigate a skeleton-based human simulator a complex and high dimensional environment course along with different obstacles. Deep RL algorithms (DDPG, Deep Q networks , Actor-Critic , etc). Technologies: OpenSim , Python , Keras-RL , Tonserflow .
- Indexing and searching in a massive database of images :
 - Indexing and Text Search: ElasticSearch, Logstash
 - Indexing and search by content using MPEG7 descriptors MPEG7: Python, nodeJS, MongoDB
- NLP-based chatbot themed by TV series: Make a chatbot learn to catch a specific personality using sequence to sequence model with attentional decoder.
- Generative Adversarial Network: Create photorealistic pictures of fake celebrities using a Deep Convolutional GANs (DCGAN) .
- 3D Augmented Reality Project: Classification of 3D volumetric shapes with Deep Neural Networks Starting from the ShapeNet architecture I was able to implement a 3D object classification strategy based on convolutional neural networks (CNN). Technologies: Python , Keras.
- Monitoring System by IoT: Carry out a monitoring system of a garden through sensors of different natures and a network IOT Sigfox to transmit the data. The recorded data are analyzed and processed on Raspberry cards and are visualized on a monitoring dashboard .

EDUCATION

ICT Engineer's degree , Erasmus
Università degli studi di padova (UNIPD)
Option : ICT for internet and multimedia
📅 2017 – 2018 📍 Padova, Italy

ICT Engineer's degree
Higher School of Communication of Tunis
(SUP'COM) Option : Computer Systems
and Networks for Telecoms
📅 2015 – 2018 📍 Ariana, Tunisia

- Telecommunication and computer science.

CERTIFICATIONS

- Deep learning (Andrew Ng)
- CCNA1 et CCNA2 (Cisco Certification)
- International Telecommunication Union (ITU) 2016 (WTSA-16)

SKILLS

Machine learning

sklearn keras tensorflow PyTorch
MxNet Theano spark mllib/ml

Programming

Python C++ R SQL Java Go

Big data

Hadoop spark elasticsearch Hive

Other tools

jupyter git docker Jira linux

DISTINCTIONS

Africa best poster winner at Deep Learning
Indaba at Stellenbosch, South Africa :
Microsoft NIPS travel award
📅 September 2018

Speaker at Deep Learning Italia Meetup.
Generative Adversarial Networks.
📅 15 May 2018 in Milan & 6 July 2018 in Rome.

Qualified to the finals of Data Science
Game in Paris as the only team from africa.
📅 June 2018

1st Place in the Data Science Hackathon by
Infor - Predict future demand for a retailer.
📅 April 2017