Alaa Eddine
Data scientist

Ornex (01) - Email me on Indeed: <u>indeed.com/r/Alaa-Eddine/eed513bb93d112ef</u>

EXPÉRIENCE

Data Scientist

TOTAL Oil Trading S.A   -   Genève, Suisse -

novembre 2016 - actuellement

➢ Implementation of sentiment analysis algorithms using NLP techniques.
➢ Helping traders take buy and sell decisions using machine learning on market data.
➢ Implementation of deep learning algorithms and deep reinforcement learning algorithms to create execution trade strategies.
➢ Using machine learning, deep learning and time series techniques to predict oil imports to the U.S and getting 90% forecast accuracy.
➢ Creation of a web app and dashboards with python Flask, leaflet.js, d3.js and dc.js to help traders create Jet balance between refineries and airports and improve by 30% the basic trader strategy.

Data Scientist

Orange   -   Châtillon (92) -

avril 2016 - novembre 2016

➢ Implementation of a recommendation engine of MOOCs for Orange employee.
➢ Data manipulation on Hadoop distributed File system.
➢ Social network analysis using statistical graph analysis.
➢ NLP on cvs and blog posts in order to create interest similarities between users.
➢ Data analysis and Data visualization using ggplot2.
➢ Employment of Collaborative filtering and Content based filtering methods.

stage en data science

Web marketing   -   Melbourne, Australie -

mars 2015 - août 2015

➢ Participation to the conception of an algorithm that target users interest type advertisements.
➢ Using Fourier analysis and graph analysis on one hand and machine learning techniques on the other hand in order to better targets advertisements.

Attaché Temporaire d'Enseignement et de Recherche

Université François-Rabelais de Tours   -   Tours (37) -

septembre 2014 - mars 2015

➢ Research in harmonic analysis, Partial differential equations and random walks on graphs.

➢ Participation to many workshops on image processing using statistics and the incorporation of signal processing using Fourier analysis in this case.

➢ Teaching undergraduate and graduate-level courses in statistics, probability, linear algebra, PDEs, python and R programming.

Attaché Temporaire d'Enseignement et de Recherche

Université d'Orléans   -   Orléans (45)   -

septembre 2012 - août 2014

➢ Research in harmonic analysis, Partial differential equations and random walks on graphs.
➢ Proving fundamental results in Fourier analysis and PDEs that helped improving results in random walks on graphs and gave new research axes.
➢ Teaching undergraduate and graduate-level courses in statistics, linear algebra, R, Python.

FORMATION

Master degree in Data Science en Data Science

University of Paris VI   -   Paris (75)

2015 - 2016

PhD en Mathematics

University of Orleans   -   Orléans (45)

2009 - 2013

Master degree in Mathematics en Mathematics

University of Tours   -   Tours (37)

2008 - 2009

COMPÉTENCE

APACHE CASSANDRA (Moins d'un an), APACHE HADOOP HDFS (Moins d'un an), ASTERADATA (Moins d'un an), python (2 ans), statistics (2 ans)

INFORMATIONS COMPLÉMENTAIRES

Core competencies

➢ Strategic Thinking: Able to influence the strategic direction of the company by identifying opportunities in large, rich data sets and creating and implementing data driven strategies that fuel growth including revenue and profits.

➢ Modeling: Design and implement statistical / predictive models (machine learning, neural networks, deep learning) and innovative algorithms utilizing diverse sources of data to predict demand, risk and price elasticity. Experience with Recommendation engines.
➢ Skills in Statistics, mathematics, Machine Learning and deep learning.

Skills and Tools
Informatics:
➢ Systems: Windows, Linux.
➢ Software and languages: R, Python.
➢ Web: HTML, JavaScript, Flask.
➢ Data visualization: D3.js, Dc.js, Highcharts.
➢ Big Data: Hadoop, HDFS, Py-Spark, Elastic-search, Cassandra, Mongo DB, Neo4J.

Linguistics:
➢ French: fluent spoken and written
➢ Arabic: fluent spoken and written
➢ English: fluent spoken and written