Noël Schneider

Data Scientist / Machine Learning Engineer

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Profile

I am a Data Scientist / Machine Learning Engineer with 2 years of experience in the fields of Data Science, Data Engineering and digital transformation. I am an expert in developing scalable, creative and intuitive solutions for the end user. I am a very versatile, open-minded and curious person. I think I have a very good sense of communication and empathy and will therefore be able to integrate myself into your team without any difficulty.

Experience

Data Scientist / Machine Learning Engineer • dataroots • 2019 Sept. - Present

Design, development and deployment of Data Science or Machine Learning applications, with particular emphasis on data quality and visualization.

Data scientist (intern) • SII • 2019 Feb. - 2019 Aug.

Implementation of machine-learning-based solutions for different use cases.
Initiator and leader of the "Artificial Intelligence" community.

Industrial engineer (intern) • Lacroix Electronics • 2018 Apr. - 2018 Aug.

Design and implementation of the digital transformation of a production plant (Industry 4.0), from business analysis to technical development.

Education

Diplôme d'ingénieur (Master in Industrial Engineering)
INSA Centre Val de Loire
2014-2019

Master in Data management & analytics
Université de Tours (France)
2018-2019

Master in Software development
TalTech (Estonia)
2017 - 2018
(Exchange student)

Microsoft Certified: Azure Data Scientist Associate

Databricks Certified Associate: Developer for Apache Spark 3.0

Key Skills

Programming languages
Python
R
JavaScript
SQL
C/C++
Matlab

Technologies
Git
Apache Spark
Docker/Kubernetes
Microsoft Azure
GCP
AWS
Airflow

Languages
French
English
Spanish
Portuguese

Frameworks & libraries
Numpy/Pandas
Scikit-learn
Tensorflow+Keras
Vue.js
Tidyverse
PyTorch

Visualization
Matplotlib/Seaborn
Shiny
ggplot
Dash
Tableau

DevOps + Project management
CI/CD pipelines
Agile/SCRUM
Terraform

Project Details

CO2 Green Logistics - ABinBev - 2020 Sept. - ongoing

• Study of the correlations between several performance indicators (KPI) and the main performance indicator to be reduced (CO2 / HL sold)
• Development of a simulator allowing to visualize the variation of the KPI to be reduced according to the variation of other KPIs, according to different granularities.

Customer Lifetime Value - Paysafe- 2020 Aug. - ongoing

• Development and deployment of a Machine-Learning-based application.
• This application is predicting the transaction volume over several months (3 months and 1 year) from the volume spent over the first week. The deployment of the containerized application was done on AWS ECS (Kubernetes)
• Development of an ETL / Data pipeline using Apache Spark for data preparation (deployment on AWS Glue).

ClimatSup Belgium webcrawler - The Shifters - 2020 Feb.- ongoing

• Development of an application based on web crawling to list the courses addressing energy-climate issues from all Belgian universities.
• I worked on the crawling part (Scrapy + Selenium) and the scoring part (NLP).

Stock projection - ABinBev - 2019 Sep.- 2020

• Deployment of a POC for warehouse cost management.
• Implementation of a stock prediction module, using sequential (ARIMA, LSTM) and regression (random forest, LightGBM) models.
• Deployment of the various micro-services of the web application on a Kubernetes cluster
• Development of the User Interface (R shiny) making the application much more visual and intuitive.

Anomaly Detection - Telecommunication company - 2019 Feb. - 2019 Aug.

• Deep Learning for anomaly detection on telecommunication network (VAE, LSTM)
• Time series clustering and correlation analysis to reduce the number of models

Kaggle Competition in NLP - 2019 Apr. - 2019 Jul.

• Predicting "toxicity" of tweets (solution based on BERT and LSTM models)
• Final ranking: 127/3000 - Silver medal

Leading AI community - 2019 Apr. - 2019 Jul.

• Initiator and leader of the "Artificial Intelligence" community within the company. This community aims to connect Data Science experts as well as popularize it to other members of the company
• Lectures to demystify artificial intelligence.

Real-Time Monitoring - 2018 Apr. - 2018 Aug.

• Design of the IOT application database (Thingworx)
• Development of a Java connector between production machines and the central ESB
• Implementation of an XML parser in this connector

Hobbies

Popularization of science through the Youtube channel "Auto-encodeur"

Sports: football, cycling, roller...

Associative commitment: Les Shifters, ESN

and many more ...