Thomas Rohée

Montreal, QC
roheethomas@gmail.com
https://www.linkedin.com/in/roheethomas/

AI Developer

Several years of development experience during which I contributed to the development of machine learning models and related applications as well as the creation of pipelines. I also supervised interns. The projects to which I contributed: real-time bidding optimization system to display the best digital impression, prediction of the risk of patient readmission and the associated web application, as well as the development of a model for predicting the risk of out of stock items in a healthcare organization.

Key skills : Python, Node.js, Scala with the help of Bash, SQL, Databricks and React, Flask for SaaS application development. Project deployment: GoCD, Jenkins, Azure Devops, AKS and EKS. Project management : Scrum method and Jira, Git and Confluence.

EXPERIENCE

Logibec **2017 - 2022**

AI Developer
Development of proof of concepts of machine learning and optimizations models in collaboration with product teams in order to solve business needs.

- Developed a machine learning model able to predict the probability of stock out of a submitted order from an healthcare organization in order to optimize orders and limit late deliveries. Used Python, Databricks on Azure, Scikit-learn and Kedro.
- Developed shared tools used by Logibec's products enabling features like single sign on, multi tenant, and SaaS on a cloud environment. Developed in Java with Spring Boot on Microsoft Azure.
- Developed a machine learning pipeline supporting a new application predicting the risk of patients' readmission before being discharged from the hospital. The application technology stack involved Apache Spark with Scala, Postgresql, Python, Flask, and Scikit-learn.
- Involved in grant applications and coordination between Logibec, clients and academic researchers in order to get federal and provincial public funding for new machine learning projects relevant for healthcare organizations.
- Managed machine learning interns from Mila who were responsible for analyzing data and developing new models relevant for the clients.

Datacratic/iPerceptions **2014 - 2017**

Machine learning specialist, 2015 - 2017
Responsible for online real-time bidding advertising campaign performance made through Datacratic RTB-Opt product. Making sure campaign managers get the best ROI possible by monitoring machine learning models performance on key metrics (Click-Through Rate, Cost Per Click, Cost Per Acquisition).

- Ensured continuous improvement of the campaign optimization system in order to fit campaign managers needs: enable optimization on small campaigns.
- Improved the system C++ and Python technology stack in order to support new use cases and improve every day operations.
- Developed a machine learning pipeline in Golang using Amazon AWS machine learning and Kubernetes to drive the new audience recognition technology.

Machine Learning Intern, 2014 - 2015
Research and development on application of neural networks for online real-time bidding advertising problems. Namely, predict accurately the probability of click by the user given an ad impression.

FORMATION

Functional Programming Principles in Scala, Coursera
Principles of Reactive Programming, Coursera
Machine Learning Engineer Nanodegree Program, Udacity

Master of computer science, Université de Montréal

Bachelor of Science with Honours - Computer Science and Information System
SUPINFO International University