

## JOB DESCRIPTION

<b>Title of position</b>	Data Scientist
<b>Contract type</b>	Permanent
<b>Department</b>	Data CoE, APAC
<b>Reporting to</b>	Head of Data CoE, APAC
<b>Job description date</b>	17 <sup>th</sup> February 2022
<b>Position opening start</b>	17 <sup>th</sup> February 2022

### Position Summary

Natixis is a French multinational financial services firm specialized in asset & wealth management, corporate & investment banking, insurance and payments, and a subsidiary of Groupe BPCE, the second-largest banking group in France. In APAC Data CoE, we build enterprise-grade tech products to contribute to business growth and improve operational efficiency regionally as well as globally for Natixis CIB. Partnering with Business Lines and Support Functions, we dive into each domain and strive to deeply understand the pain-points and thereafter deliver bespoke data solutions with measurable business benefits.

As a Data Scientist, you will work closely with a fully decentralized international team (spread across APAC) of Architects, Data Engineers, UX Engineers, Product Managers, but also with business stakeholders and Fintech partners. You will bring in the latest machine learning models for solving complex problems in finance domain. Most importantly, as the subject matter expert you will continue adopting the latest technology and bringing the best solutions to Business.

### Main responsibilities and duties of the role

- Apply machine learning techniques, including statistical analysis & modeling, ML algorithms and deep learning, on complex prediction and NLP tasks in finance domain so as to enable data-driven decision making, increase business values and reduce operational costs
- Write, debug and refine ML pipelines for efficient data preprocessing, feature engineering, model training & testing and error analysis. Write clean and production-ready codes to automate model (re-)training and deployment.
- Conduct in-depth analysis of subject-matter datasets through interactive visualization, data mining and statistical analysis
- Research and bring in the latest high-performant ML/DL models for finance-related problems
- Work on model explainability by experimenting and implementing state-of-the-art techniques
- Work with Data Engineers and Backend & Frontend Developers to integrate ML models into various enterprise products and solutions
- Work closely with various stakeholders to promote AI awareness and adoption

### Technical skill requirements

- Sound theoretical and practical knowledge in machine learning and statistics
- Expert in Python and data science related tools like Sklearn, Xgboost, Pandas, Matplotlib, Jupyter, etc.
- Well versed with Deep Learning frameworks (preferably Pytorch) and NLP techniques like Word/Sent/Doc2Vec, BERT, GPT, as well as related frameworks like spaCy, Huggingface Transformers, Gensim etc.
- Strong Experience with structured (SQL) and unstructured (NoSQL) databases.
- Knowledge of software development and system
- And most importantly, you must be a passionate end-to-end data scientist who really cares about applying ML on solving real-world problems and involves in the whole ML life-cycle

### Job Qualification (education, years of experience and other soft skills)

- Masters or PhD degree in Computer Science, Statistics, Mathematics or related areas from a Tier-1 university
- 3+ years' experience in data scientist role
- Ability to take ownership and deliver within timelines
- Effective written and verbal communication skills