Quentin-Gabriel Thurier

quentin.thurier@gmail.com
+64 29 127 2170

Profiles: [in] [O]

129 Hobsonville road, West Harbour, Auckland, New Zealand
France & New Zealand citizen

SKILLS

Science: Machine Learning, Deep Learning, Statistics, Natural Language Processing
Languages: Python, Bash, SQL, R, SAS
Visualisation: Dash, Shiny, Tableau, Snowsight, MicroStrategy
Big Data: Snowflake, Elasticsearch, Hadoop, Hive, Spark, Big Query, Redshift, Neo4j
ML Engineering: TensorFlow, scikit-learn, spaCy, Git, Github, GitLab, Prodigy, DVC, Prefect, Docker
Development Environments: VS Code, PyCharm, JupyterLab, JupyterHub, RStudio
Cloud: Amazon Web Services, Google Cloud Platform
Project Management: Confluence, Jira, Jira automation

EXPERIENCE

- **Xero - Science, Evaluation and Measurement team**　　　　Auckland, New Zealand
  Senior Applied Scientist - ML Products　　　　*November 2020 – Present*
    - **Work as a senior member of the cross-functional team in charge of Xero's ML-powered bank reconciliation production system**.
    - R&D on *learning to rank* and *named entity recognition* architectures applied to bank statements records - ML engineering - Collaborating with product and intellectual property teams - Mentoring applied scientists

- **PredictHQ - Data Intelligence team**　　　　Auckland, New Zealand
  NLP Data Scientist　　　　*May 2019 – November 2020*
    - **Developed and maintained PredictHQ's API ML-driven features together with data and software engineers**.
    - Leading ML projects for events labelling/deduping/ranking from data collection to productionisation - R&D on *named entity linking* systems with open source knowledge graphs - Mentoring data analysts

- **Orion Health - Research team**　　　　Auckland, New Zealand
  Data Scientist　　　　*February 2017 – April 2019*
    - **Shaped Orion Health's ML-based products features with clinicians and software engineers**.
    - Implementing ML *classifiers* for health risk calculation - Principal investigator for a multi-disciplinary project on *AI interpretability* - Deep learning for clinical NLP - Mentoring interns and junior data scientists

- **Qrious - Spark Ventures**　　　　Auckland, New Zealand
  Data Scientist　　　　*September 2015 - January 2017*
    - **Worked with data engineers to deliver solutions leveraging Spark New Zealand mobile devices activity data**.
    - Bespoke *geospatial studies* for the tourism and transport industries - Automating insights discovery with *big data* technologies - R&D on population flows *clustering*, transport mode and work/home locations inference

- **NetBooster - Data and Analytics team**　　　　Paris, France
  Senior Data Manager　　　　*July 2014 – August 2015*
    - **Implemented quantitative digital marketing prototypes with server logs data in collaboration with web analytics experts**.
    - Clickstream *data mining*, Quantifying the efficiency of multi-channel marketing campaigns - R&D on users online journeys *clustering* - Data engineering

- **Société Générale Corporate and Investment Banking - Anti-Fraud team**　　　　Paris, France
  Data Scientist　　　　*October 2010 – October 2013*
    - **Worked as part of the cross-functional team responsible for implementing a data-driven strategy to prevent unauthorized trading**.
    - Bespoke analyses on daily financial transactions - *Unsupervised ML* to segment/rank portfolios - Writing/auditing the scripts at the core of the fraud prevention software

- **Société Générale Corporate and Investment Banking - Anti-Fraud team** Paris, France
  Intern - Master's thesis focused on statistical methods for preventing unauthorized trading *April 2010 – Sept. 2010*
- **Colorado State University - Statistics Department** Fort Collins, USA
  Intern - Time series analyses of carbon emissions *June – July 2009*
- **Euler Hermes SFAC (credit insurance) - Economic Studies department** Paris, France
  Intern - Implementating dynamic economic dashboards *July – August 2008*

EDUCATION

- **Telecom ParisTech** Paris, France
  Post Master's degree in Machine Learning and Big Data ("Mastère spécialisé") *October 2013 – June 2014*
- **University of Washington** Seatle, USA
  Certificate in Data Science - Distance training *January – June 2013*
- **ENSAI, National School for Statistics and Information Analysis** Rennes, France
  Master of Science in Statistics equivalent ("Diplôme d'ingénieur") *2005 – 2010*

PATENTS

Methods and Systems for Training Attribute Prediction Models	Filed - September 2021
Method, Program, and Apparatus for Processing Sensitive Data	Filed - November 2021
Transaction Data Processing Systems and Methods	Published - June 2022

RESEARCH

Physician understanding, explainability, and trust in a hypothetical ML risk calculator	JAMIA 2019
Smart MedRec: Using ML for reading dose instructions and incorporating this in clinical software	HINZ 2019
Inspecting a ML-based clinical risk calculator: a practical perspective	IEEE CBMS 2019
Interpretable ML for healthcare	HINZ 2018
Improving clinical named entity recognition with transfer learning	HIC 2018
HOPE (Health Outcomes Prediction Engine) for stroke	HINZ 2017
New Zealand health data review	HINZ 2017

CERTIFICATIONS

Google Cloud Platform Developer	Google
SAS Base programming	SAS Institute inc.
Developer for Apache Hadoop	Cloudera
Apache Spark Developer	Databricks
Data Science Associate	EMC
Machine learning	Coursera
Introduction to deep learning	Coursera
Natural language processing	Coursera
A crash course in causality: inferring causal effects from observational data	Coursera
Bayesian methods for machine learning	Coursera
Data analysis	Coursera
Computing for data analysis	Coursera
Social network analysis	Coursera
How to win a data science competition: learn from top kagglers	Coursera

INTERESTS

Judo (2nd degree black belt, coaching, club secretary)
Surf
French Cinema
Hackathons