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ArthurBernard

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Data Scientist in Quantitative Finance

Key skills

- Proficiency in statistics & econometrics softwares: R (Advanced), Octave/Matlab (Advanced), SAS (Beginner), STATA (Beginner).
- Operating systems: Windows and Unix.
- Languages: French (native speaker), English (professional skill, language of instruction of Master's Degree).

Programming

- Highly advanced: Python (expertise) in NumPy, Pandas, Cython, PyTorch, Keras, Sickit-Learn, Asyncio, Multiprocess/thread, etc).
- Advanced: Shell, VBA, LaTeX.
- In progress: C++.

MOOC's

- Learn to program with Python, on OpenClassRooms.
- Machine Learning, by Andrew Ng, on Coursera.
- Deep Learning, by Andrew Ng, on Coursera.
- And other diverse courses (Linux, **C++**, etc.).

Interests

- Artificial intelligence.
- Crypto-currencies/Blockchains.

Experiences

Jan. 2019 – Research in Quantitative Finance at Napoleon Group, Paris Present R&D of trading strategies, multivariate prediction with neural networks, execution order algorithms, development of backtesting and financial analysis tools, and webscraping data.

Jun. 2018 – Intern in Quantitative Finance at Napoleon Group, Paris Research of quantitative strategies and portfolio allocation algo-Dec. 2018 rithms. Data-science competition elaborated for the Collège de France.

Sept. 2013 – Administrator (volunteer) at Mutuelle des Etudiants de Provence May 2018 Approval of budgets, financial investments, internal policy, etc.

Personal projects

2018 – 2019 Machine/deep learning tools adapted to finance

Development of a python and cython package to create **neural** networks, backtest strategies, analysis with econmetric models and financial indicators, etc. Published on PyPI as fynance.

2017 – 2018 Webscraping package

Development of a python package to download data and update database from some crypto-currency's exchanges. Published on PyPI as dccd.

2016 – 2019 Trading bot algorithms on crypto currencies

Development and maintenance of trading bots with python and bash scripts. Starting in 2016 with arbitrage strategy, and more recently create **strategies with neural network**. A part is available on my GitHub in the repository Strategy_Manager.

Education

2017 – 2018 Master's Degree in Econometrics of Banking and Finan-

cial markets

at Aix-Marseille School of Economics. Marseille

Courses: Stochastic finance, financial econometrics, financial engineering, econometrics of exchange rates, neural network, etc. **Projects:** Intraday analysis of BTCUSD versus EURUSD, etc.

Master thesis: Analysis of dynamics of Bitcoin.

2013 - 2016 Bachelor's degree in **Economics and Management** Aix-Marseille Université, Marseille

Specialization: Finance.

Courses: Time series econometrics, financial markets, statistics, optimization, informatic (SQL and VBA), etc.

2012 A-Level in **Science** at High-School Marie Madeleine Fourcade, Gardanne

Miscellaneous

2019 **Data-science competition** at ENS Challenge Data

> 7^{th} in the temporary ranking, about prediction of daily stock movements on the US market, proposed by Capital Fund Management.

2014 - 2016 Founder and general secretary of student associa-

Organisation and management of team projects.

Present **Hobbies**

Cooking, travelling (Norway, Scotland, Eastern countries, etc.),

swimming (competition) and theater.