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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, langage 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, Matlab/Octave, LaTeX.
- In progress: C++.
- Basic knowledge: R, SAS.

MOOC's

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

Interests

- Artificial intelligence.
- Crypto-currencies/Blockchains.

Experiences

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

Jun. 2018 – Intern in Quantitative Finance at Napoleon Crypto, Paris Dec. 2018 Research of quantitative strategies and portfolio allocation algorithms and creation of a data-science competition proposed to 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 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.

Hobbies Present

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

swimming (competition) and theater.