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ArthurBernard

Key skills

- Proficiency in statistics and econometrics softwares: Octave/Matlab (Advanced), R (Advanced), SAS (Beginner), STATA (Beginner).
- · Operating system: Windows and Unix.
- French Languages: (native (professional speaker), English skill, langage of instruction of Master 1 and 2).

MOOC's

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

Programming

- Highly advanced: Python (proficiency NumPy, Pandas, Cython, Py-Torch, Keras, Sickit-Learn, Asyncio, Multi-process/thread), etc.
- Advanced: Shell, VBA, Matlab/Octave, LaTeX.

• In progress: C++

· Some notions: R, SAS

Interests

- Artificial intelligence.
- Crypto-currencies/Blockchains.

Arthur Bernard

Data Scientist in Quantitative Finance

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 Research of quantitative strategies and portfolio allocation algo-Dec. 2018 rithms 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 Financial markets at Aix-Marseille School of Economics. Marseille

Courses: Stochastic finance, financial econometrics, financial engineering, econometrics of exchange eates, 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.

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

Miscellaneous

Data-science competition 2019 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 association Organisation and management of team projects.

Hobbies Present

> Cooking, travelling (Norway, Scotland, Eastern countries, etc.), swimming (competition) and theater.