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ArthurBernard

Arthur Bernard

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).

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 – Quant Researcher

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 Dec. 2018 Research of quantitative strategies and **portfolio allocation** algo-

rithms. **Data-science competition** elaborated for the Collège de France.

Sept. 2013 - Director

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** at

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} out of more than 70 candidates 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-

tion

Organisation and management of team projects.

Present Hobbies

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

swimming (competition) and theater.