

+33 6 59 29 14 50



arthur.bernard.92@gmail.com



/in/arthur-bernard-789955152

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: Unix and Windows.
- Languages: French (native speaker), English (professional level).
- Database: Basic knowledge of SQL and NoSQL databases.

### **Programming**

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

#### M00Cs

- 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 about Linux, C++, etc.

#### **Interests**

- Artificial intelligence.
- Crypto-currencies/Blockchains.

# **Experiences**

Jan. 2019 - Quant Researcher

at Napoleon Group, Paris

R&D of trading strategies, multivariate prediction with neural networks, execution order algorithms, development of backtesting and financial analysis tools, and webscraping data.

Dec. 2018

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

# **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 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. Partly available on my GitHub in the repository *Trading Bot*.

### **Education**

2017 - 2018 Master's Degree Econometrics of Banking and Financial

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 Economics and Management

Aix-Marseille University, Marseille

Specialization: Finance.

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

A-Level **Science** 2012

at High-School M. M. Fourcade, Gardanne

### Miscellaneous

**Data-science competition** 2019

at ENS Challenge Data

at

 $6^{th}$  out of more than 100 competitors, about prediction of daily stock movements on the US market, proposed by Capital Fund Management.

2013 - 2018 **Director** at Mutuelle des Etudiants de Provence, Marseille Approval of budgets, financial investments, internal policy, etc.

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.

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