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🔗 ArthurBernard

# Arthur Bernard

## Data Scientist in Quantitative Finance

### Key skills

Proficiency in statistics and econometrics softwares Octave/Matlab (Advanced), R (Advanced), SAS (Beginner), STATA (Beginner).

Operating system Windows and Unix.

Languages French (native speaker), English (professional skill, language 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

Python Highly advanced: Asynchronous, Cython, NumPy, Pandas, Sickit-learn, PyTorch, Multiprocess/thread etc.

VBA Advanced.

C++ Beginner.

### 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 and Creation of a data-science competition proposed to the Collège de France.

Jun. 2018 – **Intern in Quantitative Finance** at *Napoleon Crypto*, Paris  
Dec. 2018 Research of algorithmic strategies and creation of a portfolio allocation algorithm.

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

### Personal projects

2018 – 2019 **Development of machine/deep learning tools adapted to finance**  
Python and cython package to create neural networks, backtest strategies, analysis with econometric models and financial indicators, etc.

2017 – 2018 **Development of a python webscraping package on crypto-currencies**  
Published on PyPI.

2016 – 2019 **Development and maintenance of trading bot algorithms**  
Starting with "arbitrage on crypto currencies" and recently create strategy with neural networks.

### 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 Rates, Neural Network, etc.  
**Projects:** Intraday analysis of BTCUSD versus EURUSD, etc.  
**Master thesis:** Analysis of dynamics of Bitcoin.

2016 – 2013 Bachelor's degree in **Economics and Management** at *Aix-Marseille Université*, Marseille  
Specialized in finance.

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

### Miscellaneous

Student association **Founder and general secretary at AMEco**  
Organisation and management of team projects.

Hobbies **Cooking, travelling (Norway, Scotland, Eastern countries, etc.), swimming and theater.**