

Rayan Takka

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Available from May 2023

EDUCATION

CentraleSupélec <i>MEng in Applied Mathematics</i> <ul style="list-style-type: none">Relevant Coursework : Machine learning, Optimization, Stochastic processes and calculations, Statistics, Stochastic models in finance, Asset structuring and management, Portfolio Allocation, Monte Carlo methods in Finance	Sep. 2019 – Apr. 2023 <i>Paris Saclay, France</i>
Université Paris Cité <i>M2MO (Ex- DEA Laure Elie) : Master's degree in Quantitative Finance</i> <ul style="list-style-type: none">Main courses: Stochastic calculus and diffuse models, Modelling of derivatives, Markov chain, Financial instruments, Quantitative asset management, Algorithmic trading, Statistical learning	Sep 2022 – Apr. 2023 <i>Paris, France</i>
ETH Zürich <i>Academic exchange at the Economics/Mathematics Department</i> <ul style="list-style-type: none">Main courses: Decisions and Markets, Financial Economics, Business Analytics, Computational Methods for Quantitative Finance	Feb. 2021 – Aug. 2021 <i>Zürich, Suisse</i>
Lycée Masséna <i>Intensive preparation for the entrance exam for French top Engineering Schools</i> <ul style="list-style-type: none">A French specific two-year undergraduate program leading to a nation-wide competitive examination into the “Grandes Ecoles” (France's top Graduate Schools in Engineering and Business studies).	Sep. 2017 – Jul. 2019 <i>Nice, France</i>

EXPERIENCE

Quantitative Investment Strategies Intern <i>BNP Paribas Corporate and Institutional Banking</i> <ul style="list-style-type: none">5 month internship in the QIS team of BNP Paribas CIB, in charge of the development of quantitative investment strategies. Main Tasks : development of new intraday strategies and analysis tools, quantitative analysis of high frequency data to identify optimal solutions.	Apr.2022 – Aug. 2022 <i>Paris, France</i>
Fixed Income Trading Intern <i>Société générale Corporate and Investment Banking</i> <ul style="list-style-type: none">6 month internship in the Euro Govies and Inflation trading desk, in charge of the quotation and hedging of European bonds. Development of Relative Value and risk monitoring tools.	Sep. 2021 – Feb. 2022 <i>Paris-La Défense, France</i>

PROJECTS

Credit Card Fraud Detection using Machine Learning <i>Four months Machine Learning project</i> <ul style="list-style-type: none">Study of machine learning methods and performances comparison for the credit card fraud detection problem	Apr. 2021 – Jul. 2021 <i>Zürich, Switzerland</i>
Numerical Approach of Pricing Models <i>Three month project in Applied Mathematics</i> <ul style="list-style-type: none">Introduction and comparison of pricing models, numerical implementation of associated pricing formulas in Python via Numpy, Scipy, Matplotlib, Pandas.	Feb. 2021 – Apr. 2021 <i>Zürich, Switzerland</i>

LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

Summer Trainee/Volunteer <i>Alpes-Maritimes Food Bank</i> <ul style="list-style-type: none">Sorted donations in the cold-room and delivered food packages.Created IT tutorials to help volunteers to use the inventory management software. VBA programming in order to automatise various tasks such as inventory reporting.	Jul. 2020 – Aug. 2020 <i>Nice, France</i>
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SKILLS AND HOBBIES

IT: Python, VBA, Microsoft Office, SQL, LaTeX, Git, Java
Languages: French/Native – English/Fluent – Spanish/Intermediate
Sport: Member of CentraleSupélec's Football club, Running, Hiking
Teaching: Mathematics and Physics tutor for undergraduate and high school students