

Tornike Avaliani

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|  [Tornike Avaliani](#)

Work Experience:

Summer Analyst, Beacon Capital, London, UK

July. 2023 – Sept. 2023

Venture Capital firm specialising in early-stage startups in the European enterprise SaaS market.

- Led data operations to identify target investment opportunities.
- Initiated company outreach and nurtured relationships with prospects.
- Produced a trilogy of articles to analyse future trends and explain company's investment thesis.

Data Scientist Intern, TBC Bank, Tbilisi, Georgia

Aug. 2022 – Sept. 2022

LSE listed financial services group. Data Science division responsible for Business, Risk, and Client modelling.

- Evaluated machine learning methods including Support Mean Vectors, Random Forests, and XGBoost.
- Curated a dataset by carrying out data analysis, data cleaning, and feature engineering.
- Built an XGBoost classification model including validation, testing, and scoring to predict employee turnover.

Data Processor, CMB Revolve Technologies (CMB.TECH), Brentwood, UK

Nov. 2020 – June 2021

Engineering company that specialises in finding hydrogen-based solutions to issues posed by climate change.

- Used python to automate the creation of data visualisations for analysis and decision making.
- Produced summary reports with data visualisations, methods, and outcomes for international clientele.

Education:

Gonville and Caius College, University of Cambridge

Oct. 2021 – June 2025

MEng Engineering

Deep grounding in general engineering with specialisation in Information and Computer engineering.

- Electrical modules focused on integrated circuits, and radio-frequency methods, such as amplifiers, filters, and transmission lines.
- Information modules making wide use of probability theory, random processes, and inference.
- Communication systems compression, message encoding/decoding, modulation, and network protocols.
- Mathematical methods including linear algebra, stochastic processes, and optimisation.
- Market analysis using SWOT and Porter's Five Forces, strategy, and customer relationship management.

Major Coursework

- Integrated Electrical Project – designed and manufactured an electronic level from rudimentary components and tools, namely LTSpice circuit simulation and PicoScope 6 software for circuit and component analysis.
- Integrated Design Project – manufactured and programmed an autonomous robot. Became proficient in C++, developed rigorous testing protocols, and collaborated as an interdisciplinary team to meet deadlines.
- Programmed a 'Mars Lander' in C++ to simulate the dynamics of a probe landing on mars, created autopilot capability algorithmic logic and proportional control to operate in various orbital scenarios.

Self-taught programming

Mar. 2020 - present

- **Data Scientist Career Path course on Codecademy.com**
Courses included: Data Acquisition, Hypothesis Testing, Natural Language Processing, and Machine Learning.
- Created a bot to book meal events on my behalf using network requests and cloud services.

Extra-curricular:

Men's Captain, Gonville and Caius College Boat Club, Cambridge

Oct. 2021 - present

- Architecting training programs, designing selection processes, and recruiting talent.
- Training 10 times a week enhancing my teamwork, time-management, and decision-making.
- Cultivating interpersonal skills leading, communicating, and managing a diverse squad of over 30 people.

Volunteer Admissions Tutor

Dec. 2021 - present

- Running personal statement workshops and mock interviews (separate from my paid work as a tutor)
- Focused on students attending my secondary school from less privileged backgrounds