Mohit Raj Vellore

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Education

Bristol, UK	**University of Bristol**	**Sept 2021 – Jul 2024**

- BEng Engineering Mathematics   Classification: 2:1 (Predicted)

Watford, UK	**Watford Grammar School for Boys**	**Sept 2019 – Aug 2021**

- A Levels: Mathematics (A*), Biology (A), Chemistry (A), Economics (B)

Programming Languages

- Intermediate: MATLAB, Python, R
- Beginner: C, SQL

Experience and Academic Activities

Technical Research Paper: "Mathematical Modelling of the Peloton"   **Sept 2023 – Present**

- Constructed an agent-based model to analyse peloton dynamics in professional cycling, optimising breakaways from group cohesion. Employed differential game theory, discrete physiological modelling, and parallel/high-performance computing to facilitate in-depth analysis.

Albourne Partners – *Risk Advisory Associate (Summer Intern)*   **Jun 2023 – Sept 2023**

- **Research & Stakeholder Recommendations:**
  Conducted in-depth research on various topics, delivering both quantitative and qualitative findings to senior leaders across teams, ensuring data's significance and client implications were clear and actionable.
  - Statistical significance of Interest Rates alongside traditional risk factors on the Beta of Hedge Fund strategies.
  - Number of Hedge funds required per strategy to optimise risk and return metrics.
- **Data Analysis & Model Development:**
  Analysed large datasets to extract key insights, and developed models using diverse statistical and mathematical techniques.
  - Pioneered a tool that has been adopted by portfolio and relationship management teams, that utilises Monte Carlo simulations and Markov chains to guide clients in understanding intricate data patterns and implications through data visualisation.
- **Optimisation and Decision Making:**
  Developed and deployed quantitative and statistical models, providing tailored insights to meet diverse client needs.
  - Spearheaded a more robust methodology to generate 5/10-year private market forecasts, adapting to the more hectic macroeconomic landscape. Automated the entire process from beginning to end.

London Institute of Banking and Finance – *Student Investor Lead Analyst*   **Nov 2019 – Feb 2020**

- Led a team of four in managing a virtual long and short term £100,00 investment portfolio .
- Placed in Top 15 out of 6490 teams globally in the first round, progressing to Top 500 in semi-finals.

Leadership & Extracurricular

Cagefit Gyms – *MMA Competitor & Coach*   **Jan 2020 – Present**

- Competed across England, raising over £1,500 for charity from ticket sales.
- Instructed daily classes comprising of 15 to 25 students in Boxing, Muay Thai, BJJ and MMA.
- Trained 1900+ hours attainting a Black belt in Karate, Blue belt in BJJ and a record of 10 – 2.

Batchworth Golf Club – *Captain of Jr Golf Team & Player*   **May 2016 – Sept 2022**

- Achieved a handicap of 6 and won 12 tournament trophies and 4 awards.
- Captained under 16s and under 18s tournaments of 6+ players.

Certifications & Interests

- **Certifications:** FRM, J.P.Morgan virtual experience, Future IM/PACT virtual experience, First Aid.
- **Interests:** UFC, Cycling, Long Distance Hiking (DoFE Gold), Car Spotting, Powerlifting.