Samraj Singh

27 Springkell Drive, Glasgow | samrajsingh4@gmail.com | +44 7535023662 | samraj-singh.com

EDUCATION

University of St Andrews	**St Andrews, UK**
MSc Applied Statistics and Datamining	Sep. 2022 – Nov. 2023

- Achieved: Distinction
- Relevant Modules: Time Series Analysis, Multivariate Analysis, and Advanced Data Analysis

University of St Andrews	**St Andrews, UK**
BSc (Honours) Financial Economics	Sep. 2018 – Jun. 2022

- Achieved: Second-class honours, Upper Division (2.1)
- Relevant Modules: Portfolio Management, Advanced Econometrics and Asset Pricing

The Glasgow Academy	**Glasgow, UK**
Scottish Highers	Aug. 2011 – Jun. 2018

- Scottish Highers: Maths (A), Physics (A), Chemistry (A), English (A), Geography (A)

PROFESSIONAL AND ENTREPRENEURIAL EXPERIENCE

EarthTrack	**Remote, SG**
Product Management Intern	Sep. 2024 – Present

- Conceived and launched 4 new product features over the course of 3 Agile sprints, collaborating closely with engineering and design teams.
- Facilitated 3 product refinement sessions with a cross-functional team of 8 developers.
- Collaborated with executive team, to develop and refine branding and marketing materials, contributing to an increase in lead generation and brand awareness.

J.P. Morgan	**London, UK**
Equity Research Summer Analyst – Sector Rotations – ESG, Telecoms, Capital Goods	Jun. 2022 – Aug. 2022

- Created an ESG Diversity, Equity, & Inclusion framework for a firmwide project as the 1st ever ESG intern.
- Leveraged Excel and deep research to evaluate the impact of a new German telecom pricing plan on the top 4 market leaders, using a variety of datasets.
- Launched an initiation on Watches of Switzerland, analysed 5 years of historical information and forecasted statements until 2025, conducted a DCF valuation, and presented the report to 30+ analysts.

Systematica Investments	**London, UK**
Quantitative Research Intern	Aug. 2021 – Aug. 2021

- Calculated returns, volatility, and risk-adjusted returns with 5041 observations over 40 assets using Excel.
- Analysed market data using Python on 40 assets and created a matrix to solve optimal portfolio weightings.
- Structured an optimal portfolio on Python and maximised Sharpe Ratio given market data, graphing optimal portfolio returns against an equally weighted benchmark.

Hatai – Music & Event Management Agency	**St Andrews, UK**
Founder	Jun. 2019 – Sep. 2021

- Founded a music collective and organised 6 events with 1,000+ people in attendance across 3 cities in the UK.
- Devised the growth strategy and a lean business model to generate a total of £6,000 of revenue.
- Negotiated a partnership with UNICEF on Campus to co-host an event and raised a total £1,500 for charity.

PROJECTS

Robust Inference of Semi-Functional Linear Regression Models	**St Andrews, UK**
Researcher	May. 2023 – Aug. 2023

- Developed a robust estimation technique for Semi-Functional Linear Regressions using a Bayesian approach.
- Enhanced the codebase for Bayesian robust estimation and conducted simulations to evaluate model performance.
- Applied models to real-world datasets, demonstrating the effectiveness of the Bayesian robust estimation approach in handling outlier-prone data and producing reliable statistical inferences.

Improving Handwritten Character Recognition Using Data Science Techniques	**St Andrews, UK**
Researcher	Mar. 2023 – Apr. 2023

- Applied PCA for dimensionality reduction on the EMNIST dataset to enhance computational efficiency.
- Identified character similarities through clustering and proposed typographical changes to enhance readability.
- Quantified the impact of typographical alterations on legibility using Euclidean distance and KNN classification.

SKILLS AND INTERESTS

Technical Skills: Microsoft Office Suite, Python, Stata, R, Mathematica, SQL
Certifications: Avado Fast Futures Programme (3-month Virtual Internship), DofE (Silver)
Languages: English (Native), Punjabi (Basic Proficiency)
Interests: Scuba Diving (PADI Certified), Cooking (Host tasting menus), Skiing (French Alps and Colorado)
Volunteering: Tutored 2 underprivileged elementary school children, Undergraduate mentor (St. Andrews)