SAIMANISH PRABHAKAR

UAE Golden Visa Recipient | +971557371419 | [Email](#) | [Linkedin](#) | [Github](#) | [Portfolio](#)

EDUCATION

- **MIDDLESEX UNIVERSITY DUBAI |** MSc Investment Management | Distinction — Sep 2023 - Feb 2025
- **UNIVERSITY OF HERTFORDSHIRE** | BA (Hons) Film & Television Production | First Class (1:1) — Sep 2020 - Jul 2023

PROFESSIONAL EXPERIENCE

- **Researcher | Middlesex University Dubai - Dubai, UAE** — Apr 2025 - Present
  - Co-authoring a paper on the causal dynamics between oil prices and uncertainty measures (policy & financial markets) using ARDL bounds testing, VAR-based Granger causality, and long-run Augmented VAR. Investigated recursive transmission mechanisms, distinguishing between direct and indirect pathways mediated through supply and demand channels via which these uncertainty measures affect oil prices and vice versa.

- **Independent Researcher | Academic Collaboration - Dubai, UAE** — Feb 2025 - Present
  - Investigating AI tech's impact on teaching and learning in UAE universities by using a combination of both supervised and unsupervised ML models to analyse survey data from students and faculty. Identifying key drivers of AI adoption and provide policy recommendations for UAE higher education.
  - Analysing policy formulation challenges around AI usage in higher education, focusing on governance, capability, and incentive barriers preventing frameworks from being adopted in practice. Joint studies with a faculty member from the University of Birmingham, Dubai.

- **Crude Oil Analyst (Market Research) | Vici Energy - Dubai, UAE** — Sep 2023 - Feb 2024
  - Analysed weekly crude and product flows across the MENA, China, and LatAm identifying key interdependencies in supply and demand. Provided regular insights on refinery changes, trade dynamics, and their implications on regional markets.
  - Contributed to weekly pricing reports for crude imports into China by analysing product cracking margins, estimated MEREY-16 crude's intrinsic value by benchmarking against regional peers, adjusting for API and sulphur levels.
  - Delivered daily research reports on global oil market trends, including OFAC sanctions and shadow fleet impacts, to senior management.

PROJECTS

- [Options Strategy Payoff Calculator](#) | Libraries: numpy, pandas, matplotlib, streamlit — Apr - May 2024
  - Engineered an interactive options strategy profitability calculator, empowering users to conduct analysis of several strategies such as Strap, Bull Call Spread & Long Butterfly and more with dynamic visualisation of net-payoff tables and break-even points allowing for an efficient assessment of each strategy's risk-reward profile.

- [Options Pricing and Greeks Analysis](#) | Libraries: numpy, pandas, matplotlib, streamlit, plotly, scipy — Jan - Feb 2025
  - Developed an options pricing tool using Black-Scholes and Monte Carlo methods, comparing options price sensitivity to volatility, time to expiration, and strike price, with visualisations of Monte Carlo price paths and distributions. Implemented Greek analysis for both methods, and created multi-dimensional sensitivity plots for deeper insights into option pricing dynamics.

- Proprietary Trading Risk & Execution Engines | Technologies: Python, C++ (ACSIL) | Libraries: streamlit, numpy — Jun - Sep 2025
  - Built a risk engine enforcing per-trade risk (≤1.5%), daily drawdown buffer (2.5%), and total equity defence (≥5%) with automated lockouts and recovery logic. Designed a tiered drawdown defence system with escalating responses, including "Emergency Drawdown Defence" mode at ≥4% daily or ≥9% total. Implemented validation flags for leverage breaches, tight stops, poor R:R setups, TP-loss mismatches, and duplicate trades, ensuring strict pre-trade compliance.
  - Constructed an execution framework with dynamic unit sizing from external inputs, staleness detection, and a state-driven order gate (DISARMED → WARMUP → ARMED_OK → AUTO_LOCK). Added compliance-aware order semantics: reduce-only logic, position clamping, one-order-per-press enforcement, and 3s debounce. Ensured full auditability via JSONL logging, daily balance rollovers, and persistent status overlays/popups for transparent operator feedback.

RESEARCH *(Working & Published)*

- **The Causality between Oil Price, Policy & Financial Markets Uncertainty in the United States** | Under Peer-Review
  - Identifies recursive transmission loops where sustained demand-side shocks induce long-run supply stress, impacting oil prices via economic policy uncertainty as both a conduit and recipient of market dynamics, with implications for policy design.

SKILLS, CERTIFICATIONS & OTHER *(Full list of completed and on-going certifications available on portfolio)*

- ***Technical:*** Python, Git, GitHub, CLI, STATA, EViews, Excel, LaTeX, Power BI, Refinitiv Eikon, S&P Global (Platts, Capital IQ), Kpler
- ***Certifications:*** Quant Trading Strategies & Models, Options Trading (Basic and Intermediate), Level 4 IBGM Diploma (LIBF certified)
- ***Ongoing Certifications:*** Python (Inter/Adv), DS&A, C++/C#, SQL, ML/AI Engineer (Career Path), Data Scientist: ML/NLP/Inference
- ***Academic Courses:*** Applied/Advanced Econometrics, Derivatives & Structured Products, Fixed-Income Securities, Investment Analysis & Management, Corporate Finance & Valuation, and Entrepreneurial Finance.
- ***Interests:*** Long Distance Running, Brazilian Jiu-Jitsu, Muay Thai, Philosophy