

**SIDHARTH VARGHESE**  
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**AUTHORIZED TO WORK FOR ANY US EMPLOYER**

**OBJECTIVE**

Pursuing a Master's in Quantitative Finance and armed with a Computer Engineering background, I bring an analytical toolkit to navigate the dynamic landscape of the economy. With a deep understanding of macroeconomic operations in financial institutions, I aim to contribute at the crossroads of finance, economics, statistics, and technology for transformative data-driven solutions.

**EDUCATION**

Aug 2024	<b>BOSTON COLLEGE, CARROLL SCHOOL OF MANAGEMENT</b> <i>Master of Science in Finance (Quantitative)</i> , GPA: 3.92/4.0 Relevant Coursework: Financial Econometrics, Financial Forecasting, Behavioral Finance, Quantitative Portfolio Management, Derivative and Risk Analytics, Data Analytics in Finance, Management of Financial Institutions	<b>BOSTON, MA</b>
July 2023	<b>BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE (BITS)</b> <i>Bachelor of Engineering (Hons) in Computer Science with Finance Minor</i> Relevant Coursework: Data Structures & Algorithms, Object Oriented Programming, Database Systems, Probability & Statistics, Game Theory, Matrix Algebra, Discrete Mathematics, Differential Calculus, Integral Calculus, Partial Differential Equations, Fuzzy Logic and its Applications	<b>PILANI, INDIA</b>

**SKILLS & INTERESTS**

Technical: Advanced Excel (VBA, Macros), Python (Pandas, NumPy), R, SQL, MATLAB, C++, Java, Power BI, Qlik  
Functional: Regression Analysis, Stress Testing, Financial Forecasting, Risk Management, AI/ML Applications, Financial Modeling  
Soft: Active Listening, Adaptability, Leadership, Motivation, Conflict resolution, Team Player, Effective Communicator  
Interests: UFC, Football, Chess, Podcasts, History, Space

**WORK EXPERIENCE**

Sep 2023- Present	<b>OFFICE OF GLOBAL EDUCATION, BOSTON COLLEGE</b> <i>Finance Graduate Assistant</i> <ul style="list-style-type: none"><li>Carried out detailed analyses of flight costs from Boston to multiple global destinations during the summer timeframe, providing students with an estimated fare benchmark.</li><li>Decreased transactional costs by forecasting different foreign currency exchange rates using techniques such as exponential smoothing and moving average, saving approximately 3% based on past exchange rate fluctuations.</li><li>Compared and contrasted annual program budgets using past 5 years data, identifying an average error term of 9%. Utilized this insight to refine forecasting models, enhancing the accuracy of future budget predictions.</li></ul>	<b>BOSTON, MA</b>
Jan-Jun 2023	<b>CREDIT SUISSE</b> <i>Risk Analyst Intern</i> <ul style="list-style-type: none"><li>Monitored market, credit and operational risk using measures such as Economic Risk Capital (ERC), ensuring strict compliance with different regulatory authorities using an SLA compliance ratio.</li><li>Designed and executed 3 Excel macros using VBA to streamline the ERC daily procedures, leading to almost 90 minutes of daily work time saved.</li><li>Utilized Jupyter notebook and the Pandas library to develop multiple VaR and S-VaR scenarios for USD/CHF FX rates across the 95% and 99% confidence intervals.</li><li>Tracked capital movements across different business divisions and conducted ad-hoc analysis on market risk scenarios, informing the associated stakeholders on a priority basis when transactions exceeded 70 million USD.</li></ul>	<b>MUMBAI, INDIA</b>
May-Jul 2022	<b>SAMOSA PARTY</b> <i>Market Growth and Finance Intern</i> <ul style="list-style-type: none"><li>Standardized daily management reports using Power Query based on raw materials supplied and order cancellations.</li><li>Contributed to decreasing costs through regression analyses of price trends using Excel in high-selling products, boosting average daily sales by 6% for the subsequent month.</li><li>Optimized pricing strategies by creating lucrative offers and allocating discounts on items, resulting in an additional 2% increase in consumer sales after in-depth examination of customer buying trends in Bangalore, Hyderabad, and Delhi.</li><li>Conducted employee loyalty operations on three select outlets in Bangalore, uncovering lost sales revenue of \$250.</li></ul>	<b>BANGALORE, INDIA</b>

**PROJECTS**

Oct-Dec 2022	<b>APPLICATIONS OF FUZZY LOGIC IN CIVIL ENGINEERING</b> <ul style="list-style-type: none"><li>Applied fuzzy analysis to assess the hydraulic behavior of pipe networks, considering uncertainties in parameters such as old pipes' roughness coefficient and fluctuating demands.</li><li>Implemented uncertainty analysis to determine the carrying capacity of steel columns, considering variables such as cross-section, gyration radius, Young's modulus, and yield stress.</li></ul>	
Feb-May 2022	<b>FOG COMPUTING BASED IOT NETWORKS</b> <ul style="list-style-type: none"><li>Designed and simulated a 3-layer fog architecture featuring a proxy server and fog nodes, streamlining the flow of patient data, and enabling quick response to abnormal health conditions, significantly benefiting emergency healthcare services.</li><li>Reduced network usage by almost 90%, underscoring the transformative potential of fog computing in enhancing healthcare monitoring systems and reducing time overhead.</li></ul>	

**LEADERSHIP**

Aug-Dec 2022	<b>ULTIMATE FRISBEE TEAM, BITS</b> <i>University Team Captain</i> <ul style="list-style-type: none"><li>Directed and successfully executed the first ever Ultimate Frisbee inter-college tournament in Pilani, securing 2<sup>nd</sup> place out of 5 professional college clubs in India.</li></ul>	<b>PILANI, INDIA</b>
Jan-Dec 2022	<b>DEPARTMENT OF CONTROLS, BITS</b> <i>Inter-College Festival Coordinator</i> <ul style="list-style-type: none"><li>Oversaw budgeting of the 2<sup>nd</sup> largest college-run cultural festival in India and handled travel expenses up to \$20000 for escorting judges and distinguished guests.</li><li>Orchestrated event scheduling, prop procurement, and impartial judge assessment for the college's annual tech festival.</li></ul>	<b>PILANI, INDIA</b>