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EDUCATION

Arizona State University	Master of Science in Business Analytics	**August 2021 - May 2022[*]**
Indira Gandhi National Open University	P.G. Diploma -Applied Statistics- Non-Degree	**July 2020 - July 2021**
Annamalai University	P.G. Diploma in Financial Management	**November 2018 - December 2019**
University of Madras	Bachelor of Arts in Economics	**June 2012 - April 2015**

PROFESSIONAL EXPERIENCE

Analyst- Goldman Sachs   **January 2016 - August 2018**

• Managed cash & custody portfolios of 230 clients in firm's Prime Brokerage business. Evaluated and automated transactions data processes with analytical insights to identify and mitigate areas of institutional and operational risks. Performed pre and post trade analytics with visualization tools to generate volume, execution, and trend analyses. Identified process redundancies and manual touchpoints through these inferences and proposed/executed process automation through business intelligence deployments. Helmed requirements analysis and change management for cross-regional migration of payment processes.

• Built strong relationships with internal/external stakeholders to facilitate straight-through trade settlements and prompt booking corrections in trade instructions in cases of market mismatch. Predicted trade mismatch rates at the back of central banks' biannual rerate events using historical settlements data to mitigate settlement delays.

CAREER HIGHLIGHTS

Prime Brokerage and Custody Services

• Spearheaded modification of firm's legacy journal tool to accommodate transaction reporting regulations laid by MiFID II. Extracted and integrated data on~27,000 cash journals from multiple internal data warehouses and performed descriptive analytics on the same to identify additional transaction categories to satisfy regulatory requirements.

• Liaised with Technology teams to upgrade the tool to include identified fields, conducted reiterations of testing while tracking project status via JIRA, thus facilitating successful deployment prior to MiFID II go-live.

Liquidity Trade Management

• Performed Root Cause Analysis on broker behavior by extracting and collating settlement data for over 300,000 booked trades from internal data repositories on PostgreSQL and attributed 46% of total settlement failures to broker errors/delays. Developed a scorecard using generated metrics to relay these underlying trends to brokers. Renewed SLAs with brokers to achieve a time save of ~120 minutes per week while also improving firm's risk management.

• Built a dashboard on Tableau to continue generating quarterly broker ratings and track broker activity after renewed SLAs.

• Created a Client Money dashboard to record day-on-day client money obligations to be locked up with firm's Treasury operations at the back of EOD exposure from unsettled repurchase trades.

INTERNSHIPS/PROJECTS

Research Data Analyst- Actionable Analytics Lab, ASU   **December 2021 – Present**

• Investigating point-cloud data and camera images generated by LiDAR from Waymo's Autonomous Vehicles, to extract and characterize human-robot interactions in public spaces. Building data pipelines via Tensor Flow and PyTorch with Python to identify, label and analyze pedestrian-automated vehicle interactions.

Data Research Assistant- Indo-German Centre for Sustainability, IIT Madras   **November 2015 - January 2016**

• Conducted time-series analysis on demographic data for 16 revenue units in Sriperumbudur district. Identified an increase in population by 185% over 30 years. Utilized ArcGIS for Overlay Analysis to model environmental depletion versus population growth projected over upcoming 20 years.

Data Analyst - Indian Institute of Management   **May 2015 - June 2015**

• Worked on the prestigious 'Satellite and Advanced Multimedia Project'. Analyzed raw data from 1000+ schools across 5 KPIs.

• Built a CLI tool in C++ to automate ingestion and collation of academic evaluation data thereby saving 180 minutes/ day. Determined an increased pass percentage of 73% as a measure of impact of satellite learning modules based on these KPIs.

Summer Analyst- Goldman Sachs   **April 2014 - June 2014**

• Designed Business Process Mappings on Signavio to outline repurchase trade processes and pin-pointed redundancies in the T+3 Euro- Gentan settlement flows. Initiated a realignment of agent bank to streamline settlement process and create a time save of 40 minutes/week through implementation of the new workflow.

SKILLS & ACTIVITIES

• **Languages:** Tamil, English, French, Telugu, Kannada, Hindi

• **Programming Skills:** Python (NumPy, Pandas, Matplotlib, Plotly, Scikit-learn, SciPy, Seaborn, Keras), R (dplyr, ggplot2), SQL, SAS, C++

• **Software Tools & Skills:** JIRA, Confluence, Signavio, Microsoft Suite (Word, Excel, PowerPoint, Access), Advanced Excel (Pivot Tables, Vlookup, Solver, StatTools), PowerBI, Tableau, Alteryx, RStudio, Jupyter Notebook, Zeppelin Notebook, Anaconda

• **Finance Domain Expertise:** Repurchase Trades, Financial Modelling, Bond/ Equities Markets, Corporate Valuation/Pricing, Derivatives Markets Settlements, Financial Reporting, Cash/Custody Portfolio Management, Financial Risk Management, Bloomberg

• **Interests:** Scuba Diving (PADI-licensed deep-sea/ enriched-air diver), Swimming, Marine Conservation (participant in Reef- building and restoration work), Sustainable Finance, Mountaineering (Himalayan Trekker)