ADITYA BAIJAL

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Indian

KEY SKILLS AND COMPETENCIES

Market Risk	Credit Risk	Financial Engineering	Derivatives	Corporate Finance
Risk Advisory	Model Validation	Derivative Restructuring	Quantitative Analysis	Project Management

TECHNICAL SKILLS

Visual Basic for Applications (VBA)		Python	MATLAB	SQL
C++	Tableau	Murex	Bloomberg	Microsoft Office

EDUCATIONAL QUALIFICATIONS

- **Master of Science in Financial Engineering (2012-2014)**

RISK MANAGEMENT INSTITUTE, NATIONAL UNIVERSITY OF SINGAPORE, SINGAPORE

- **Bachelor of Engineering in Computer Science and Engineering (2006-2010)**

MAHARSHI DAYANAND UNIVERSITY, ROHTAK, INDIA

PROFESSIONAL EXPERIENCE

I.	Position:	Manager – Model Validation and Governance (MVG) – Treasury, Market and Liquidity Risk (TMLR)	November, 2024 — February, 2025
	Organization:	**ABU DHABI COMMERCIAL BANK (ADCB) PJSC**	Abu Dhabi, United Arab Emirates
II.	Position:	Associate Director – Risk Advisory	September, 2021 — November, 2024
	Organization:	**EHATA FINANCIAL COMPANY**	Riyadh, Kingdom of Saudi Arabia
III.	Position:	Assistant Manager – Market and Treasury Credit Risk (MTCR)	October, 2017 — April, 2019
	Organization:	**EMIRATES NBD PJSC**	Dubai, United Arab Emirates
IV.	Position:	Market Risk Analyst	June, 2016 – October, 2017
	Organization:	**CREDIT SUISSE BUSINESS ANALYTICS (INDIA) PRIVATE LIMITED**	Mumbai, India
V.	Position:	Risk Management Analyst	October, 2015 — June, 2016
	Organization:	**ESTEE ADVISORS PRIVATE LIMITED**	Gurugram, India
VI.	Position:	Market Risk Analyst	August, 2014 — October, 2015
	Organization:	**BARCLAYS SHARED SERVICES PRIVATE LIMITED**	Mumbai, India

KEY RESPONSIBILITIES

Abu Dhabi Commercial Bank (ADCB) – Manager – Model Validation and Governance (MVG) – Treasury, Market, and Liquidity Risk

- Reviewed and challenged models across Treasury Front Office (pricing models and new products such as FX TARFs), Risk Management (VaR, PFE limit monitoring), and reporting frameworks (xVA, CVA, IRRBB) implemented on the Murex platform or as internal models, through replication, backtesting, sensitivity analysis, and benchmarking.

- Led in-depth validation of interest rate models (e.g., IRRBB – Pricing of Embedded Options), thoroughly analyzing theoretical models, assumptions, methodologies, implementations, data, inputs, and regulatory standards for consistency and compliance.
- Developed independent Python-based benchmark models to validate stochastic models for FX on the Murex platform, utilizing SDEs (Stochastic Differential Equations), PDEs (Partial Differential Equations), FDM (Finite Difference Methods), and Monte Carlo simulations to assess model performance and accuracy.
- Performed detailed reviews of model performance metrics and conducted independent quantitative assessments to ensure alignment with Basel III, IRRBB, and internal risk management frameworks.
- Collaborated with Risk Management, Treasury Front Office, Murex, and Model Development teams to address complex model findings, ensuring robust governance, comprehensive documentation, and effective resolution of model validation outcomes.

Ehata Financial – Associate Director – Risk Advisory:

- Spearheaded risk assessment and hedge strategy formulation for corporate clients, covering interest rates, FX, commodities, and derivatives, with a focus on regulatory compliance and risk mitigation.
- Developed Python, Excel, and VBA models to simulate FX and interest rate movements using Monte Carlo techniques, improving precision in risk assessments and strategy design.
- Directed the creation of a corporate SaaS platform for exposure management, derivative pricing, benchmarking, and risk reporting.
- Led the review of OTC derivative sales practices, ensuring Basel compliance and enhancing collaboration with the Saudi Central Bank (SAMA).
- Performed an in-depth review of the full OTC derivative trade lifecycle on the Murex platform for all banks as part of the SAMA OTC sales practices thematic review.
- Contributed to the optimization of exotic derivatives, enhancing client profitability and risk efficiency through advanced modeling techniques.

Emirates NBD – Assistant Manager – Market and Treasury Credit Risk (MTCR):

- Managed validation and reporting of essential risk metrics (VaR, Delta, Gamma, Vega) for market and credit transactions, ensuring Basel Framework and IRRBB compliance.
- Calculated Potential Future Exposure (PFE) for derivatives and generated counterparty risk reports for Repo/Reverse-Repo and banking book issuers.
- Supported ALCO, BRC, and senior management with detailed market risk reports, enhancing transparency and policy adherence.
- Developed and automated Excel/VBA tools for risk reporting, improving accuracy and efficiency in market risk evaluations.
- Directed system enhancement projects from design to UAT and deployment, aligning with Basel standards for risk management.

Credit Suisse – Market Risk Analyst:

- Led Basel III ACVA (Advanced CVA) capital charge calculations, addressing Credit Valuation Adjustment risks for investment and private banking sectors.
- Validated CS01 exposures and performed CVA VaR assessments using historical simulations, ensuring alignment with internal risk policies and regulatory expectations.
- Extended CVA calculations to derivatives such as single name CDS, index CDS, and swaptions, aligning strategic hedges with Basel standards.
- Developed VBA tools to automate risk reporting and enhance operational efficiency.

Estee Advisors – Risk Management Analyst:

- Managed VaR calculations and risk analysis for high-frequency trading strategies in equity, FX, and commodities across global exchanges.
- Collaborated with trading and operations teams to refine VaR models, implement permanent breach solutions, and streamline data extraction.
- Developed analytical tools in R, VBA, and SQL for data analysis and risk reporting, enhancing model accuracy and reporting efficiency.
- Improved PnL forecasting models for Quanto products and conducted liquidity risk analysis to optimize trading capital utilization.

Barclays Shared Services – Market Risk Analyst:

- Conducted daily VaR and SVaR calculations using historical simulations, analyzing impacts from position adjustments and market shifts.
- Performed risk factor validations for trading book positions, ensuring compliance with Basel regulations (IRRBB, SA-CCR, FRTB).
- Produced and distributed market risk reports, collaborating with asset class teams and risk managers to address data anomalies.
- Computed Incremental Risk Charge (IRC) and Comprehensive Risk Measure (CRM) via Monte Carlo simulations, integrating Basel principles with stress-testing methodologies.

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With over eight years of experience in banking and financial risk management, I have held pivotal roles at leading institutions, including Abu Dhabi Commercial Bank (ADCB), Emirates NBD, Credit Suisse, Barclays, and Ehata Financial. My expertise spans market risk management, model validation, regulatory compliance, and quantitative modeling, with a strong focus on Basel standards and banking risk frameworks. I have led initiatives such as model validations for Treasury, xVA, and IRRBB models, managed VaR and PFE assessments for derivative products, and conducted capital charge computations under Basel III CVA and CCR standards. Additionally, I have driven system enhancements, developed Python-based benchmark models, and performed simulations to evaluate risk exposures across banking products.

My experience extends to advising corporate clients on hedge strategies, restructuring complex derivatives, and implementing SaaS platforms for exposure and risk management. I have also conducted regulatory audits of OTC derivative sales practices, ensuring alignment with Basel standards and regulatory expectations. With a solid foundation in high-frequency trading risk management and multi-asset portfolio analysis, I bring a deep understanding of quantitative techniques, including historical simulation, PDEs, and Monte Carlo methods.

My technical proficiency includes advanced skills in Excel, VBA, Python, SQL, Murex and Tableau, which I leverage to build analytical tools, automate risk processes, and develop benchmark models. Holding a Master of Science (M.Sc.) in Financial Engineering from the National University of Singapore, I am well-equipped to address complex challenges in banking risk management and regulatory compliance, driving value and ensuring financial success.

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