Mayank Lal

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Summary

Quantitative Risk Modeling Lead with 10 years of experience developing PD, LGD, and domain-specific risk models under IFRS9, CECL, and CCAR for $10B+ portfolios. Skilled in applying advanced statistical and machine-learning techniques for end-to-end model development with strong alignment to regulatory expectations.

Education

- **Indian Institute of Management** — *Tiruchirappalli, India*
  Master of Business Administration; Major in Finance & Analytics — *Jun 2017 - Mar 2019*
- **Guru Nanak Dev Engineering College** — *Ludhiana, India*
  Bachelor of Technology in Computer Science & Engineering — *Aug 2010 - Apr 2014*

Experience

EXL Services (I) Private Limited — *Gurugram, India*
Senior Quantitative Risk Model Developer — *Dec 2021 - Present*

- **Recovery Model Redevelopment:** Developed recovery model for a $3 billion LATAM-based mortgage portfolio by incorporating payment-based settlement logic to resolve underprediction from -45% to 8%.
- **Climate Risk Stress Testing:** Enhanced new-booking sampling methodology in the Climate Risk Stress Testing framework for a $6 billion APAC mortgage portfolio, implementing a stratified sampling approach to maintain portfolio and geographical representativeness under constant balance sheet regulatory assumptions.
- **PD Model Benchmark Rate Transition:** Re-estimated logistic regression coefficients within a Markov Chain–based State Transition Matrix PD model following the benchmark rate change, preserving predictive performance (ROC 70.4%, Gini 41%) in line with MRM performance thresholds.
- **Knowledge Development & Business Enablement:** Led business enablement for Climate Risk Stress Testing by developing 5+ case studies and training modules, upskilling 20+ analysts and supporting 3 client portfolio engagements.
- **Team Leadership & Project Management:** Supervised a six-member modeling team delivering 5+ projects under IFRS9, CECL, and CCAR; improved documentation turnaround by 30% and ensured 100% MRM compliance.
- **Awards:** Received *ACE Award (2023)* and *Pioneer Award (2024)* for innovation and excellence in credit risk model development.

Larsen & Toubro Limited — *Chennai, India*
Data Scientist — *May 2019 - Dec 2021*

- **Project Financial Risk Analytics Platform:** Designed GAM-based classification model to identify projects at risk of time overrun, achieving ROC of 80% and supporting early intervention and portfolio-level margin protection.
- **Safety Risk Analytics Platform:** Collaborated with cross-functional teams to develop a Recency–Frequency–Severity–based Safety Scorecard model, quantifying project-level safety performance across 100+ sites and improving safety compliance by ~20%.
- **Vendor Risk Intelligence Dashboard:** Built an end-to-end sentiment analysis model to process daily news for 1,000+ vendors supporting an order book of $72 billion, enabling business teams to identify and mitigate vendor-related operational risks.
- **Analytics Adoption Initiatives:** Championed analytics adoption across multiple business units by demonstrating analytics-driven products, earning stakeholder trust, and establishing analytics as a core decision-support capability.

Infosys Limited *Chandigarh, India*
Data Engineer *May 2014 - Feb 2017*

- **Data Engineering & Application Analytics:** Rearchitected SQL-based data pipelines and optimized reporting workflows for 10+ web applications, achieving 90% faster report generation through query tuning, indexing, and schema redesign.
- **Automation & Process Optimization:** Created backend automation scripts and deployment utilities that reduced manual data-handling effort by 79% and improved system reliability across multiple applications.

Certifications

- **FRM (Financial Risk Manager)** – Level II Candidate (GARP)
- **Quantitative Analyst in R** – DataCamp (2025)
- **Practical Time Series Analysis** – The State University of New York (2021)

Skills

- **Modeling & Methods:** PD, EAD, LGD, Climate Risk Stress Testing, Forecasting, Statistical Modeling, Machine Learning, Natural Language Processing
- **Programming & Tools:** R, SAS, SQL, Python, Git, Bash, Excel, Powerpoint
- **Regulatory Frameworks:** IFRS 9, CECL, CCAR
- **Model Lifecycle & Governance:** Model Development, Back-Testing, Sensitivity Analysis