**RITUPARNA BERA, PMP, CSM, CSPO**

**AI/ML | RPA | Model Validation | Product Strategy | EMBA (Rotman, UofT – 2026)**  
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**PROFILE SUMMARY**

Forward-thinking **AI/ML and automation leader** with 17+ years of experience driving **digital transformation and intelligent validation** across financial systems. Expert in **Generative AI, LLMs, RAG architectures, and model governance frameworks.** Adept at bridging **technology, business strategy, and regulatory compliance** through rigorous model testing and scalable automation. Currently pursuing an **Executive MBA at Rotman (UofT)** and recently earned a **University of Toronto Micro-Credential in Deploying AI Applications**, strengthening expertise in AI lifecycle design, deployment, and evaluation for enterprise use.

**CORE SKILLS**

• **AI/ML:** Generative AI, NLP, Deep Learning, Transformers, RAG, Model Evaluation, Explainability (SHAP, LIME)  
• **Tech Stack:** Python, PyTorch, TensorFlow, LangChain, HuggingFace, PromptFlow, Azure AI, SQL  
• **Validation & Testing:** Statistical Testing, Benchmarking, Bias Detection, Model Governance, Automation Frameworks  
• **Tools:** JIRA, Git, Docker, VS Code, Snowflake, Blue Prism, UiPath  
• **Leadership:** Agile, Scrum, Product Roadmapping, Stakeholder Communication

**EXPERIENCE**

**TD Bank – RPA Test Engineer / AI Automation Lead**  
*Platform & Technology | 2022 – Present*  
• Lead **validation and testing** of AI/ML and RPA automation models across predictive, NLP, and classification workflows.  
• Partner with **AI2, Layer6, and Fraud teams** to evaluate model reliability, fairness, and interpretability metrics.  
• Develop **Python-based benchmarking and regression testing suites** for intelligent automation models.  
• Conduct **Generative AI proof-of-concepts** (LLM evaluation, RAG implementation, prompt testing) for fraud and risk detection.  
• Enhanced QA framework to integrate **bias detection and explainability modules** aligned with model risk standards.  
• Mentor cross-functional teams on **AI governance, automation efficiency**, and model lifecycle assurance.

**TD Wealth – Business Analyst / Lead Quality Engineer**  
*2014 – 2021*  
• Spearheaded **API and ETL validation** for Wealth and CPAM platforms ensuring high-integrity data flows.  
• Designed test automation dashboards improving **model monitoring and predictive analytics accuracy**.  
• Partnered with leadership to **define AI-driven product roadmaps** enhancing customer value through analytics.  
• Championed **Agile delivery practices** across testing squads, improving time-to-release and data-driven decisions.

**PROJECT HIGHLIGHTS**

• **Generative AI Validation Prototype:** Developed a LangChain-based testing tool to evaluate LLM prompt stability and consistency.  
• **RAG Evaluation Framework:** Designed an internal benchmark measuring **retrieval accuracy and contextual response quality**.  
• **AI Model Governance Automation:** Integrated validation checks in CI/CD pipelines using **PyTest and MLflow tracking**.

**EDUCATION**

**Executive MBA (Class of 2026)** – Rotman School of Management, University of Toronto  
**Micro-Credential – Deploying AI Applications** – University of Toronto (2025)  
*Focused on the end-to-end AI lifecycle: design, build, deploy, and evaluate enterprise-scale AI systems including prompting, fine-tuning, RAG, and agent frameworks.*  
**Master of Computer Application** – University of Kalyani  
**Bachelor of Science (Hons) in Statistics** – University of Kalyani

**CERTIFICATIONS**

• PMP Certified  
• Certified Scrum Master (CSM)  
• Certified Scrum Product Owner (CSPO)  
• **Data Science & ML Certification – University of Toronto Data Science Institute**  
• **Deploying AI Applications – University of Toronto (Micro-Credential)**

**PUBLICATIONS & RESEARCH**

• *Research Paper (in progress):* **Evaluating RAG Models for Financial Decision Support Systems**  
• *LinkedIn Articles:* *Bridging AI Governance and Product Strategy*, *How Generative AI Is Reshaping Model Risk Management*