Job Role: AI/ML Risk Consultant

Availability: Immediate is preferred

Job Location: Bangalore/Mumbai

Job Purpose: -

We are seeking a professional with over 4 years of experience, specializing in machine learning, natural language processing, and generative AI. The candidate should possess a robust background in AI/ML model development/validation, optimization, and risk management, with a proven track record of integrating AI/ML solutions into business strategies and managing complex regulatory and ethical considerations.

Key responsibilities include -

* Design, develop, train, fine-tune, evaluate, validate, and optimize ML models for enhanced performance, accuracy, generalization, and scalability.
* Apply strategic thinking to integrate AI solutions into existing systems and applications, leveraging technical expertise in AI and ML.
* Manage data risk, information security, operations, privacy, and compliance, drawing on a strong background in risk management and governance.
* Navigate the complexities of financial services regulations, AI standards, and ethical principles related to AI, with a focus on managing the heightened risks of Gen AI and emerging technologies.
* Conduct comprehensive risk assessments for a variety of AI and Gen AI use cases, considering the entire lifecycle from development to deployment.
* Design and implement rigorous testing frameworks to evaluate the performance, quality, and reliability of generative AI models.
* Prepare and present detailed reports on AI risk metrics, including Key Control Indicators, Key Risk Indicators, and Key Performance Indicators, to facilitate early detection of potential risks.
* Oversee the continuous monitoring and evaluation of AI risks, adapting strategies to manage emerging threats effectively.
* Communicate effectively with leadership and cross-functional teams to influence outcomes and drive results in risk management initiatives.

Skill Set Required -

* Demonstrated practical experience in machine learning techniques, supervised, unsupervised, and semi-supervised.
* Experience in natural language processing (NLP), generative AI and its applications.
* Experience with machine learning optimization and a variety of generative AI models and techniques.
* Strong understanding of and experience with various AI/ML model validation techniques, including statistical tests, ablation studies, and adversarial testing. Familiarity with common metrics and benchmarks used in the validation of generative models.
* Knowledge of deep learning models such as GANs, diffusion models, and transformers.
* Relevant experience in Financial Services industry would be desirable.
* Experience in a modeller role in the financial services industry is preferred.

Education:

A degree in Engineering, MS, or PhD in relevant fields such as Statistics, Applied Mathematics, Computer Science, or Econometrics.

Software/Tools:

* Proficient in programming languages such as Python, R, and C++ for AI and ML model development.
* Skilled in using AI and ML libraries and frameworks, including TensorFlow, Keras, PyTorch, and Scikit-learn.
* Experience with cloud computing platforms like AWS, Azure, and GCP for deploying scalable machine learning models would be a plus.
* Familiar with big data technologies and distributed computing frameworks, such as Hadoop and Spark, for handling large datasets.
* Knowledgeable in version control systems like Git for code management and collaboration.