

Cover Letter

Dr. Rajkrishna Mondal

AI Researcher | Data Scientist | Generative AI & Agentic AI Engineer

Dear Hiring Team,

I am a Data Science and Generative AI professional with a strong foundation in **mathematics, statistical modeling, machine learning, large language models, and enterprise AI system development**. With a PhD in Mathematics and over a decade of experience across data-intensive and AI-driven projects, I specialize in transforming complex structured and unstructured data into intelligent, scalable, and business-aligned solutions.

My professional journey spans **Data Science, Natural Language Processing, Retrieval-Augmented Generation (RAG), vector search systems, Agentic AI workflows, prompt engineering, and production-grade LLM applications**. I have led the design and deployment of cognitive search engines, natural language analytics platforms, automated SQL intelligence systems, and multi-agent orchestration frameworks that bridge advanced AI capabilities with real-world enterprise requirements.

I bring deep expertise in **Python, SQL, FastAPI, LangChain, LangGraph, LlamaIndex, Chroma, Docker, Kubernetes, CI/CD, model evaluation, and AI governance practices**. My work focuses on building reliable AI systems that combine **technical precision, scalability, interpretability, and measurable business impact**. From exploratory data analysis and predictive modeling to LLM evaluation pipelines and agentic orchestration, I enjoy solving complex analytical problems end-to-end.

My academic research and publications in **intelligent systems, fuzzy decision science, diagnostic modeling, and computational analytics** have further strengthened my ability to approach problems with rigor, creativity, and strong methodological discipline. This research mindset continues to shape how I design modern AI solutions that are not only innovative but also practical and production-ready.

I am particularly passionate about creating **next-generation AI systems that enhance decision intelligence, automate complex workflows, and make advanced analytics accessible to end users**. My goal is to contribute to organizations that value innovation, data-driven thinking, and scalable AI transformation.

I welcome opportunities to collaborate on **Data Science, Gen AI, LLM, Agentic AI, NLP, analytics engineering, and intelligent automation initiatives**.

Sincerely, Dr. Rajkrishna Mondal