



8 Courses

- Develop Generative AI Applications: Get Started**
- Build RAG Applications: Get Started**
- Vector Databases for RAG: An Introduction**
- Advanced RAG with Vector Databases and Retrievers**
- Build Multimodal Generative AI Applications**
- Fundamentals of Building AI Agents**
- Agentic AI with LangChain and LangGraph**
- Agentic AI with LangGraph, CrewAI, AutoGen and BeeAI**



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Hassan Abdus Salam

has successfully completed the online, non-credit Professional Certificate

Rav Ahuja
CCO & Global Program Director
IBM Skills Network

IBM RAG and Agentic AI

The certificate holder is proficient in building advanced generative AI applications using RAG, agentic, and multimodal AI technologies. They understand the core concepts and real-world applications of generative AI and agent frameworks. They can design effective prompts, implement function calling, and use tools like LangChain to orchestrate complex reasoning workflows. They can build autonomous and collaborative agents that use memory, feedback, and chaining to solve structured and unstructured problems. They are able to integrate APIs, tools, and multi-step reasoning to create flexible, self-improving systems. They can design multi-agent architectures using frameworks like CrewAI and LangGraph, enabling distributed decision-making, dynamic context switching, and role-based coordin

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

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