

Yogesh Haribhau Kulkarni You

Al Advisor (Helping organizations in their Al journeys) | PhD (Geometric Modeling) | Tech Colum...

🦸 Many professionals ask me how they can transition into Artificial Intelligence and Machine Learning or even become a Data Scientist. The good news is there is a clear path to get started.

I like to think of this ae 3 roles or even a journey in three growth stages:

User → 
Neveloper → 
Researcher

Depending on your background, goals, and curiosity, you can move through these stages or remain where it best serves you. Below/attached is a practical roadmap, especially for Generative Al:

- User Stage
- Experiment with AI tools for text, images, and video. Apply them to your real-world use cases.
- Explore low-code and no-code platforms.
- Learn prompt engineering by defining roles, objectives, context, and constraints.
- P Developer Stage
- Strengthen your foundation in mathematics, programming, and ML/DL algorithms.
- Dive into Retrieval-Augmented Generation (RAG) with frameworks like LangChain or LlamaIndex.
- Experiment with fine-tuning using Hugging Face, or no-code solutions such as Ludwig, Vertex AI, or Azure Al Studio.
- 🗾 Build automation workflows ( 🧠 LangGraph), autonomous agents ( 🖶 AutoGen, CrewAl), and deploy them with safety quardrails.
- Researcher Stage (an aspirational phase for many)
- Train or fine-tune Large Language Models from scratch.
- Explore advanced architectures, multi-modal and multi-agent systems.
- Develop expertise in reinforcement learning, which is key for reasoning-based LLMs.
- 🏂 This roadmap is not exhaustive, but it is enough to get started. Download and try out links. Let me know any changes or recommendations.

And here's the most important takeaway: \*\* Your degree, location, or background do not define you. What truly matters is your GitHub repo that's your real resume. \*\*

• The AI transition is not about where you came from, but about what you can build.

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