
Career Guidance on Data Science, Generative AI, Agentic AI

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Classroom & Online Training



Full Stack

DATA SCIENCE

with Gen AI & Agentic AI

Python | Statistical Modeling | ML / DL | NLP |
Computer Vision | SQL | Power BI | MLOps

by Mr. Prakash Senapati



Welcome & Objectives

What you'll learn ==>

- **Career paths in Data Science & AI**
- **What is Generative AI & Agentic AI**
- **Tools, technologies, and job roles**
- **Roadmap to career success**

Why This Matters in 2025

- **AI is reshaping every industry**
 - **Demand for data and AI roles growing exponentially**
 - **High salaries and global opportunities**
 - **Remote and freelance work becoming the norm**
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What is Data Science?

- **Process: Collect → Clean → Analyze → Model → Deploy**
- **Roles: Data Analyst, Data Scientist, ML Engineer**
- **Tools: Python, SQL, Pandas, NumPy, Scikit-learn**
- **Platforms: Jupyter, Google Colab, Databricks, vs code**

Real-World Use Cases (Data Science)

- **Fraud Detection in Banking**
- **Customer Segmentation in Marketing**
- **Predictive Maintenance in Manufacturing**
- **Price Optimization in Retail**



What is Generative AI?

- Definition: AI that creates new content
- Models: GPT, DALL·E, Sora, Stable Diffusion, GANs
- Applications:
 - Text (ChatGPT), Image (Midjourney), Video (Sora)
 - Code (Copilot), Music, Design

Generative AI Tools & Platforms

- **OpenAI (ChatGPT, DALL·E), Gemini, Llama**
 - **Hugging Face**
 - **RunwayML, Replicate**
 - **Midjourney, Leonardo AI**
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- **Definition:** AI agents that reason, plan, and act
 - **Key features:** Memory, Planning, Tools, Autonomy
 - **Architecture:** Tool use + Memory + Reasoning Loop

**What is
Agentic AI?**

Agentic AI Tools & Frameworks

- **LangChain, Langgraph**
 - **CrewAI || AutoGen**
 - **AgentOps**
 - **OpenAgents**
 - **N8N**
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Agentic AI Use Cases

- **Research Assistants (Devin AI)**
 - **Autonomous Coding Bots**
 - **Workflow Automation**
 - **Enterprise Virtual Agents**
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Career Roadmaps

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- **For Students:**
 - **Learn Python, Math, Stats**
 - **Do mini projects & Apply for jobs**
 - **For Professionals:**
 - **Leverage domain knowledge**
 - **Learn no-code/low-code AI**
 - **Work on transition projects**



Build Your Portfolio

- GitHub Repositories
- Medium/LinkedIn Blogs
- Participate in Kaggle/Competitions
- Create end-to-end projects



Job Roles & Salaries (India/Global)

- Data Scientist: 8–25 LPA
- GenAI Engineer: 10–40 LPA
- AI Agent Developer: 12–45 LPA
- Remote and Freelance roles available

Live Project Showcase

Stable Diffusion Image Generation

<https://huggingface.co/stabilityai/stable-diffusion-xl-base-1.0>



Q&A and Career Counseling

- **Open Floor for Questions**
- **Personalized guidance**
- **Book 1:1 session (Optional)**

Previous workshop title

ResumeBuildingBootcampforDataAnalytics,BA,DataScience&GEN AI Roles →

- [playlist?list=PLVIQHNRLfIP-SaPff3325gkISMHEznEix](https://www.youtube.com/playlist?list=PLVIQHNRLfIP-SaPff3325gkISMHEznEix)

AgenticAI→

- [playlist?list=PLVIQHNRLfIP8Pt3wVIRWRaXZXi79clwSq](https://www.youtube.com/playlist?list=PLVIQHNRLfIP8Pt3wVIRWRaXZXi79clwSq)

DataAnalytics&BusinessAnalytics→

- [playlist?list=PLVIQHNRLfIP-BgYmMIM8YQpvQM2J99HE0](https://www.youtube.com/playlist?list=PLVIQHNRLfIP-BgYmMIM8YQpvQM2J99HE0)

GenerativeAI→

- [playlist?list=PLVIQHNRLfIP81c99eg7UhkVZxwPvhTddM](https://www.youtube.com/playlist?list=PLVIQHNRLfIP81c99eg7UhkVZxwPvhTddM)

PythonforDatascience→

- [playlist?list=PLVIQHNRLfIP9GN5rc8sBWnrV53DWAzfdn](https://www.youtube.com/playlist?list=PLVIQHNRLfIP9GN5rc8sBWnrV53DWAzfdn)

AZUR AI (Cognitive Services for Data Scientist)→

- [playlist?list=PLVIQHNRLfIP8JthpjvJFaofUkJS1A7qa1](https://www.youtube.com/playlist?list=PLVIQHNRLfIP8JthpjvJFaofUkJS1A7qa1)

MCP → www.youtube.com/watch?v=6LI5uB8VQto

THANK YOU

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