

AI Career Paths — Your Future

Student Self-Training Guide · Grade 8+ · Module 9 of 10

1. Careers in AI & Data

AI and Data Science are among the fastest-growing career fields in the world. Here are the main career paths — find which one excites you most!

2. The 6 Career Roles (DATA GEEK Framework)

Role	Core Skills	What They Do	Salary (India)
Data Analyst	SQL, Excel, Power BI	Finds patterns, makes dashboards	14–8 LPA
Data Engineer	Python, ETL, Pipelines	Builds data infrastructure	16–14 LPA
Data Scientist	ML, Python, Statistics	Builds prediction models	18–18 LPA
AI Engineer	LLMs, RAG, LangChain	Builds AI applications	110–22 LPA
ML Engineer	MLOps, Deployment	Puts AI models into products	110–20 LPA
Agent Engineer	LangGraph, AutoGen	Builds autonomous AI agents	112–25 LPA

3. Skills Every AI Career Needs

- Python programming — the language of AI.
- Mathematics — statistics, probability, linear algebra (Grade 9+ maths).
- Problem solving — breaking big problems into small solvable steps.
- Communication — explaining AI results to non-technical people.
- Curiosity — AI evolves fast; you must love learning continuously.

4. Your Learning Roadmap (Starting Today)

Phase	Duration	What to Learn
Beginner	Months 1–3	Python basics, Excel, basic statistics
Intermediate	Months 4–6	Pandas, NumPy, first ML model
Advanced	Months 7–9	Deep learning, NLP, real project
Career Ready	Month 10+	Portfolio of 3+ projects, apply for internships

5. Free Resources to Start Learning Now

- Google's "Machine Learning Crash Course" — free at developers.google.com/machine-learning
- Kaggle Learn — free Python and ML mini-courses at kaggle.com/learn
- CS50 AI — Harvard's free AI course at cs50.harvard.edu
- DATA GEEK Master Book — [CHERIEDU.COM](https://cheriedu.com) — comprehensive career guide

YOUR NEXT STEP

Write down which of the 6 roles excites you most. Then spend 30 minutes today on one free resource. The best time to start is NOW.

