



The Ingredients of Data Scientist

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Disclaimer

Views are personal and based on my experience.

I have extensively used AI tools to format the presentation but ...

the contents are own.

Feel free to use the content but a reference would be great and appreciable.



Agenda

Pathway

Agenda

Your expectation

Myths

Self-Assessment

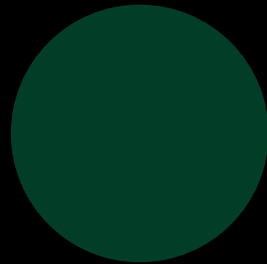
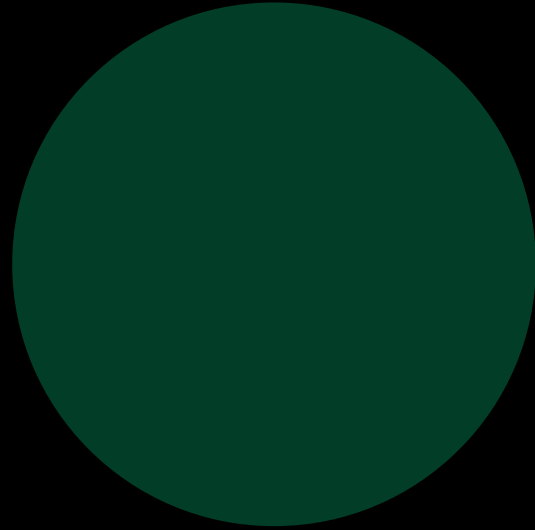
Pathway

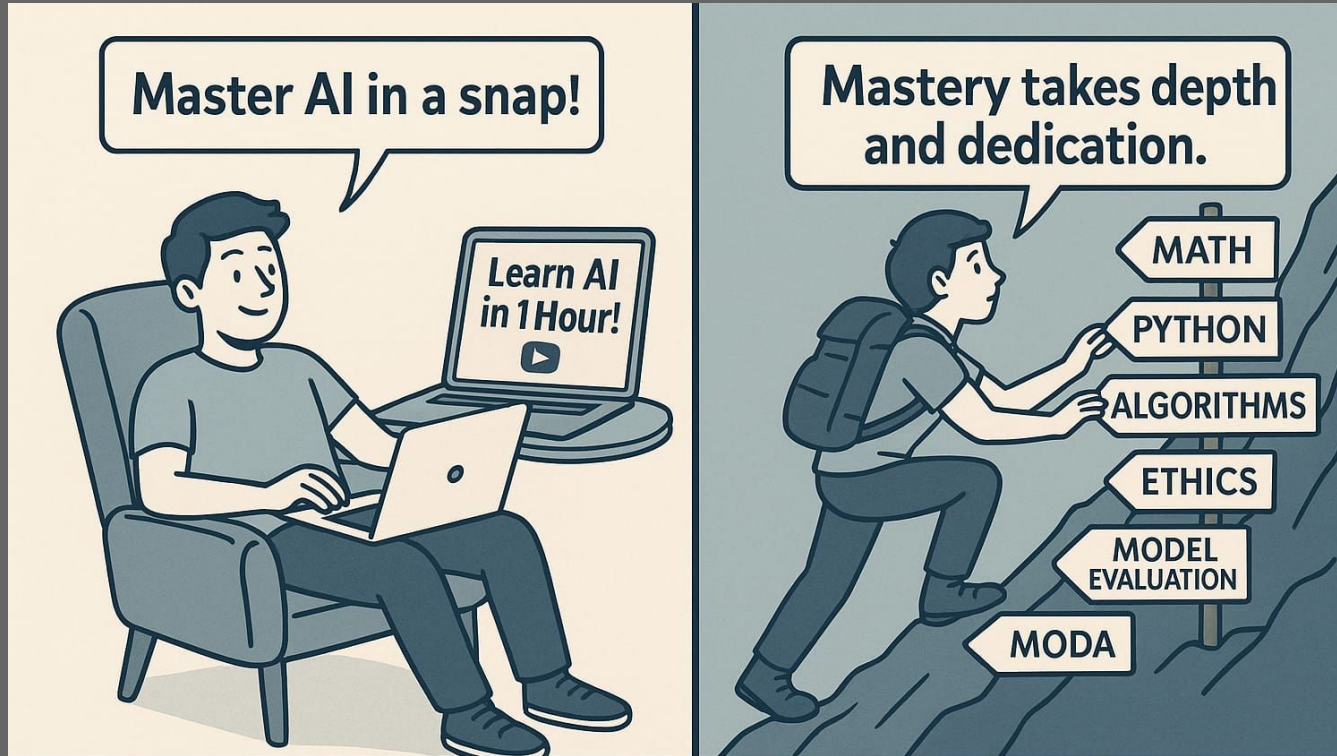
Clear the **myths**





→ Can Data Science be learned with a single Course?

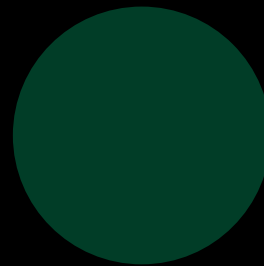
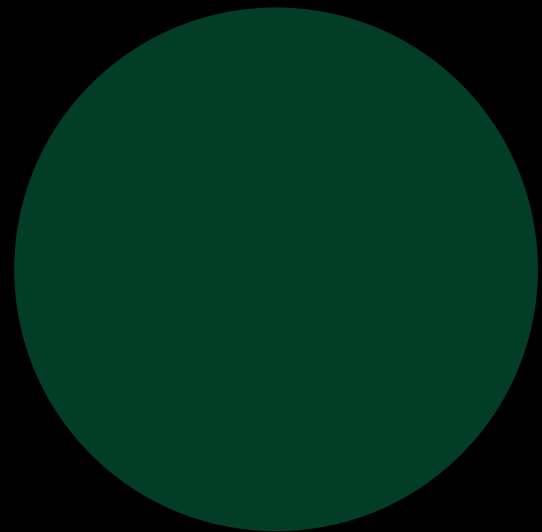




CLEAR THE MYTH: AI isn't a shortcut — it's a journey.
Avoid tool-only traps. Build your core first.



→ What is a Data Scientist?



WHAT IS A DATA ANALYST?



RESPONSIBILITIES:

- Collecting and cleaning data

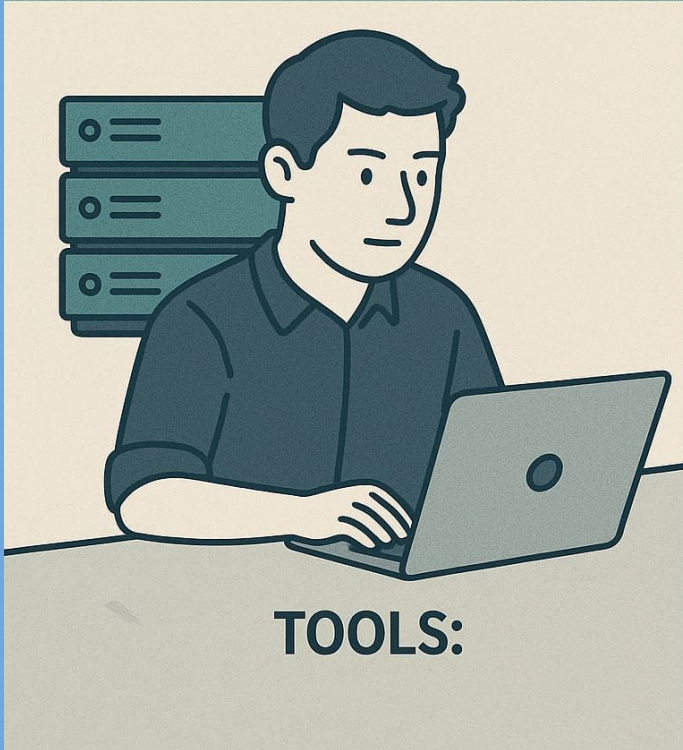
RESPONSIBILITIES:

- Collecting and cleaning data
- Analyzing data for insights
- Creating reports and visualizations

TOOLS:



WHAT IS A DATA ENGINEER?



TOOLS:

RESPONSIBILITIES:

- Building data pipelines
- Integrating data from sources
- Optimizing data workflows

TOOLS:

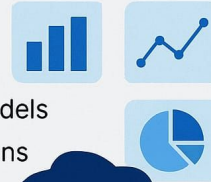


WHAT IS A DATA SCIENTIST?


A professional who analyzes complex data to help inform business decisions

RESPONSIBILITIES


- Analyze large datasets
- Build machine learning models
- Develop data-driven solutions
- Communicate findings



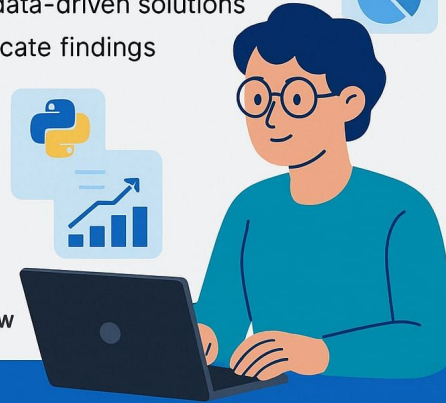
TOOLS

 python™

 R

 jupyter

 TensorFlow



A professional who analyzes data to help inform business decisions



What I **see?**



HOW MANY PEOPLE ARE ASPIRANT TO BECOME DATA SCIENTIST?



BUT I AM SEEING THE END RESULT,
THAT IS HOW MANY HAVE REALLY
BECOME THE DATA SCIENTIST,
HOW MANY HAVE REALLY
MOVED ACROSS.

**THE ANSWER IS FEW,
VERY FEW.**



LACK OF
PRACTICAL
EXPERIENCE



LACK OF
STRONG
PORTFOLIO

OVEREMPHASIS
ON ALGORITHMS,
UNDEREMPHASIS ON
BUSINESS CONTEXT



COMPETITION
AND MARKET
SATURATION



SKILL GAPS
IN ENGINEERIN
& DEPLOYMENT



POOR
COMMUNICATIO
SKILLS



NO DOMAIN
EXPERTISE



INCONSISTENT
LEARNING
PATH



LIMITED
APPLIED
UNDERSTANDI-
NG OF THE TECH



NO MENTORSHIP
OR PEER
NETWORK

How this can be addressed ?

Self-Assessment





Learning Pathway

Aspirant - Intermediate - Expert





Layered Learning Roadmap



Practical suggestion

<https://medium.com/data-science-collective/the-ultimate-ai-ml-roadmap-for-beginners-d0a2fbd0e739>

<https://www.youtube.com/watch?v=JAWSqX2fBvQ>

→

So far went through **Ingredients** Does the **Recipe** ready ?



Before moving to Q&A

