

# Roadmap Career in AI



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# Step 1

## Learn AI Fundamentals

- ★ Matrices, Linear Algebra, Calculus, Probability, etc
- ★ Database Basics
- ★ Data Formats
- ★ Data Frames and Series
- ★ ETL, Tabular Data, etc

this includes all basics of  
Maths, AI and Databases

## Step 2

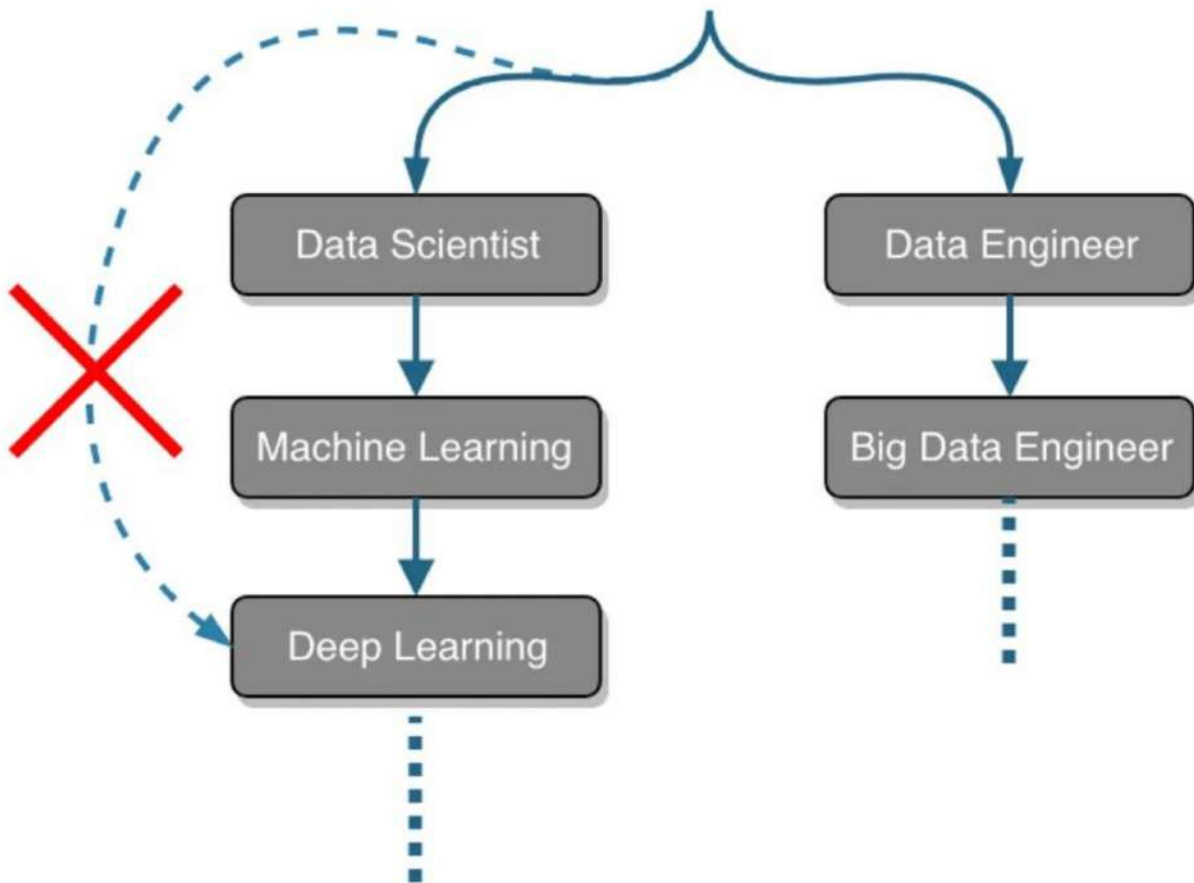
# Learn Programming Language

- ★ Python Basics
- ★ Important Libraries
- ★ Virtual Environments
- ★ Jupyter Notebook/Labs

you can choose languages  
like python, java, R, etc

## Step 3

Choose your path



you can follow any path  
you want to go in

# Path 1

*step 1*

## Data Scientist

- ★ Data Acquisition
- ★ Data Preparation
- ★ Data Analysis
- ★ Data Manipulation

Data Scientist finds insights from data using math and code 🧑💻

# Path 1

*step 2*

## Machine Learning

- ★ Supervised Learning
- ★ Unsupervised Learning
- ★ Reinforcement Learning
- ★ Important Libraries

Teaches computers to learn  
from data and experience 🤖



# Path 1

*step 3*

## Deep Learning

- ★ Neural Networks
- ★ Architectures
- ★ Training
- ★ Tools, Frameworks
- ★ Model Optimization

Uses neural networks to solve complex problems 🧠

## Path 2

*step 1*

# Deep Engineer

- ★ Data Formats
- ★ Data Discovery
- ★ Data Sources
- ★ Data Integration
- ★ Data Fusion, etc

Builds systems for data collection,  
storage, and analysis🔧



## Path 2

*step 2*

# Deep Engineer

- ★ Big Data Architectures
- ★ Principles
- ★ Hadoop
- ★ Data Warehouse
- ★ Numba
- ★ Cloud Services, etc

Handles large-scale data using distributed frameworks 🌐

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