




Artificial Intelligence Road Map

Fundamentals

 Calculus & Linear Algebra

 Database basics

(Relational, non-relational, sql, no-sql)

 Data Formats
(JSON, XML, CSV)

 Tabular data

(Programming language used to apply functionality into a website)

 Python

(Python Basics, Important libraries e.g. Numpy & pandas, Jupyter Notebook)

 Data Sources

(Data Mining, Web Scraping, kaggle)

 Data Analysis

(Data munging, Data wrangling)



Data Science



Probability & Statistics Theory



Important Laws

(Law of Large numbers (LLN), Central limit theorem (CLT))



Estimation (MLE & KDE), Confidence Interval



Virtualization



Machine Learning

Data Engineer



Summary of Data Formats



Data Discovery



Data Integration



Transformation & Enrichment

Projects

- Predict House Price
- Stock Price Prediction
- Face Recognition & detection



- Make your personal portfolio

Concepts

- Supervised Learning
- Unsupervised Learning
- Semi Supervised Learning
- Reinforcement Learning
- GIT , Github

Tools & Framework every AI Developer should know about

- Scikit Learn.
- TensorFlow.
- Keras.
- PyTorch.
- Oracle AI
- Anaconda
- NVIDIA GPU Cloud (NGC)
- Microsoft Azure ML
- Google AI

Resources to Learn Web Development

- Ai Introduction Course (<https://www.youtube.com/playlist?list=PL1Xmyl4aKTRjsElvwpRWjuLHh9UEOF8Mb>)
- How to learn python (<https://www.youtube.com/watch?v=p-WRlrfu2J8>)



- Data Science (<https://www.youtube.com/playlist?list=PL1Xmyl4aKTRhHnJRy7K41LtlGpcr5MXD9>)
- Python (<https://www.youtube.com/playlist?list=PLEo1K3hjS3uv5U-Lmlnucd7ggF-3ehlh0>)
- Machine Learning (<https://www.youtube.com/watch?v=Gwlo3gDZCVQ>)
- Deep Learning (<https://www.youtube.com/watch?v=DooxDIRAkPA>)

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