Yogesh Haribhau Kulkarni

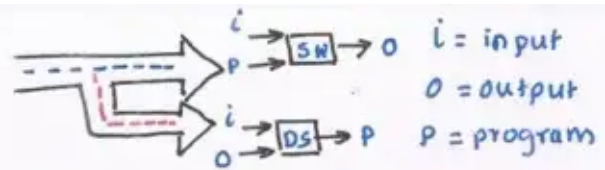Jan 14 · 1 min read · ▶ Listen

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Transition to Data Science

A Learning Path

Data Science was there for ages but was not as popular as today. Stars aligned when availability of data, compute power and libraries/tool. catapulting its growth like never before. HBR even called the Data Scientist job as the "The Sexiest Job of the 21st Century".
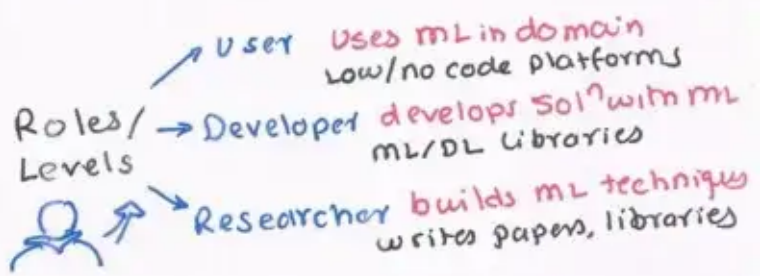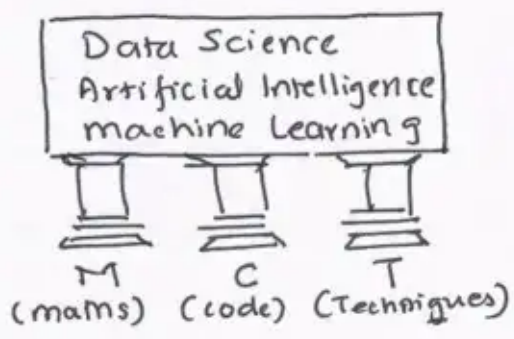
With all that jazz, no wonder folks are getting attracted to data science. But what does that entail? Here are my points for Transitioning to Data Science, a Learning Path.
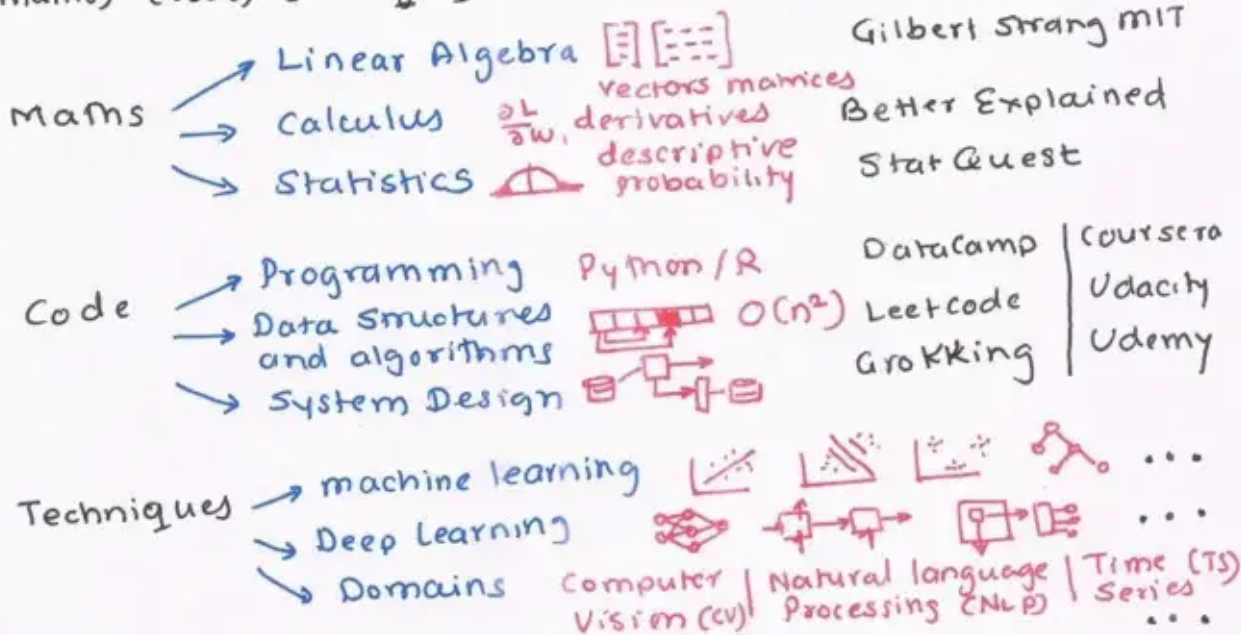
Transition To Data Science
A learning Path

Software (SW) ⟹ Data Science (DS)

i = input
O = output
P = program

Data Science / Artificial Intelligence / machine Learning

M (maths) — C (code) — T (Techniques)

Roles / Levels →
- User — Uses ML in domain, Low/no code platforms
- Developer — develops Sol^n with ML, ML/DL Libraries
- Researcher — builds ML techniques, writes papers, libraries

Maths
- Linear Algebra — vectors matrices
- Calculus — $\frac{\partial L}{\partial w_i}$, derivatives
- Statistics — descriptive, probability

Courses ⇓
- Gilbert Strang MIT
- Better Explained
- Stat Quest

Code
- Programming — Python / R
- Data Structures and algorithms — $O(n^2)$
- System Design

DataCamp | Coursera
LeetCode | Udacity
Grokking | Udemy

Techniques
- machine learning
- Deep Learning
- Domains — Computer Vision (CV) | Natural language Processing (NLP) | Time Series (TS)

People to follow : Andrew Ng, Jason Brownlee ...
EduTech to follow : Coursera, Udacity, Udemy, Edx ...
Cloud platforms having ML : Google (GCP), Microsoft (Azure), Amazon AWS

machine learning : scikit-learn | Deep learning : Tensorflow, Pytorch

Natural language Processing : Spacy, NLTK, Stanford Core NLP

Problem solving : Kaggle

ToDos ⇒
- Building Portfolio of Projects
- Github open source contributions
- Attend & give talks @ meetups
- write blogs/articles @ Medium

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