

Welcome

Agenda

- Introduction, Future Scopes, Roles & Responsibility.
- Roadmap
- What is a programming language? Why Python?
- IDE's
- * Interview Questions
- * FAQ's

Data Science | Data Analytics

Data
↓
information
that can
be stored
and retrieved

Science : A multi-disciplinary field
that uses scientific methods,
processes, algorithms and
systems to extract knowledge
and insights from the data.

DA → To get insights from the data

Virat Kohli

80
85
86

min - 80
high - 86

insights

Some useful
information =

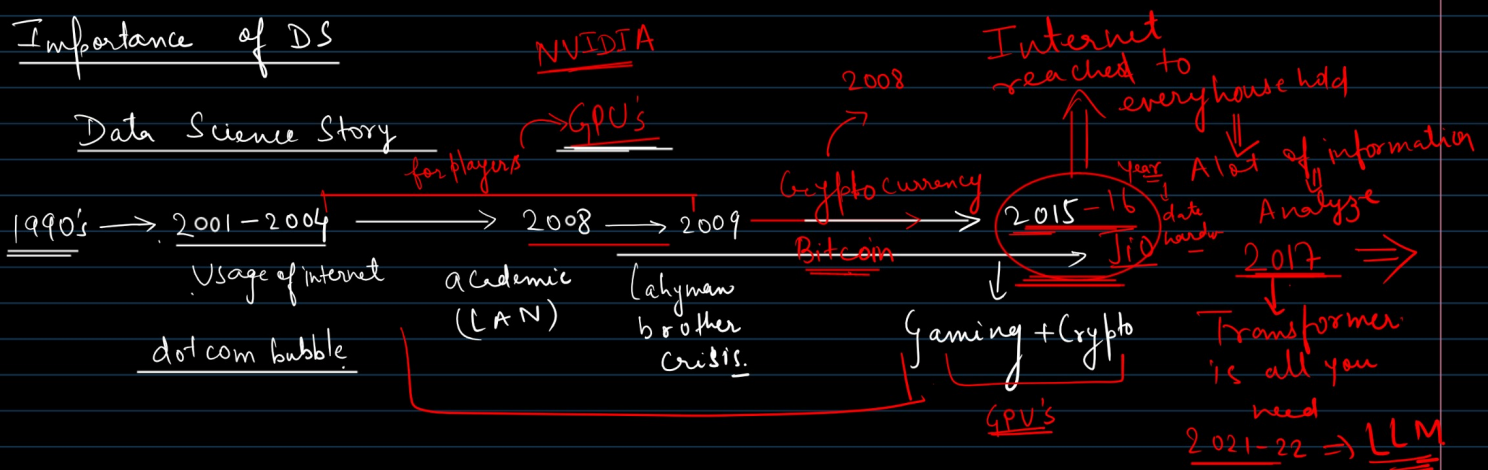
How to get insights??

↓
Analysis ≈ Using Statistics, Python.

Math + Statistics with Python

Importance of DS

Data Science Story



* Importance of DS / Analytics

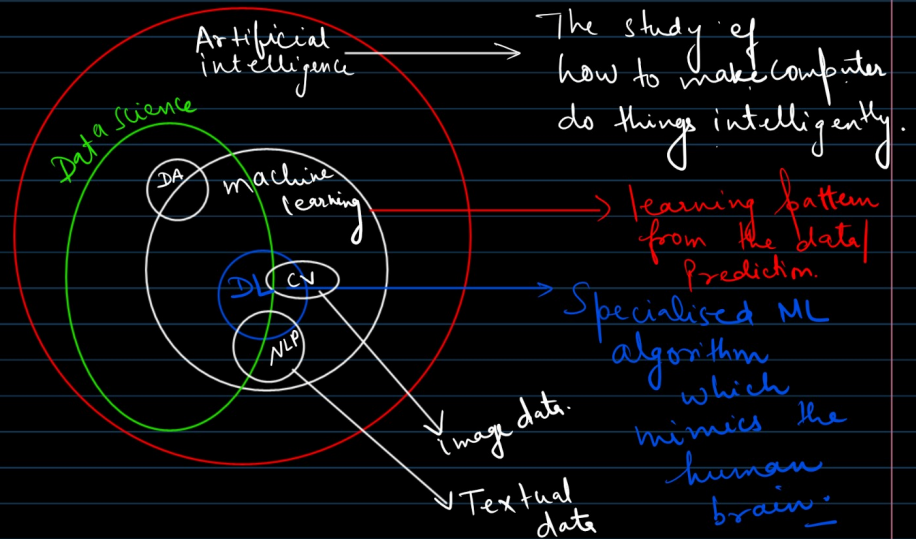
Gen AI

better business decision. \Rightarrow innovation & efficiency

\rightarrow finance, healthcare, marketing, pharmaceutical, semiconductor.

Future Scope

- \rightarrow Growing demand
- \rightarrow A lot of application.

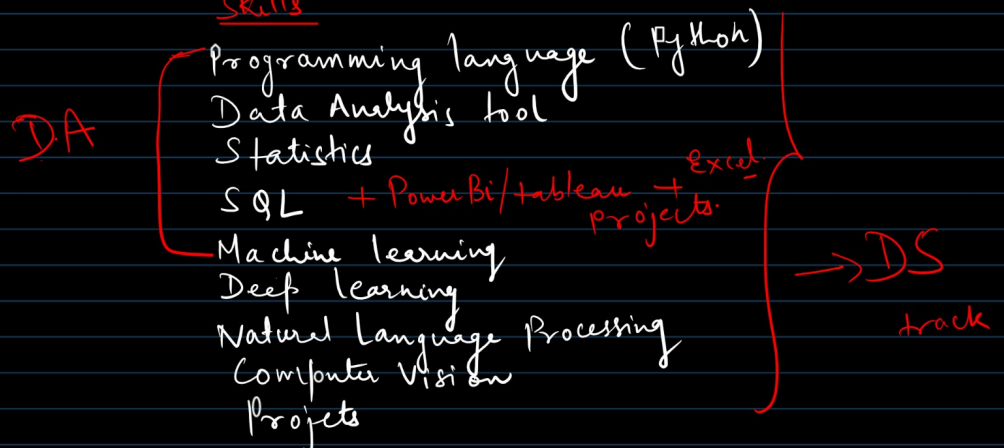


- * DS \rightarrow Inter disciplinary
- * ML \rightarrow Pattern from the data
- * CV \rightarrow Works on image
- * NLP \rightarrow " " textual data
- * Data Analyst \rightarrow Get insights from the data to improve the business
- * Business Analyst \rightarrow Who analyse business to get insights
- * Data Engineer \rightarrow Infrastructure
- * " Architect

* Roadmap :-

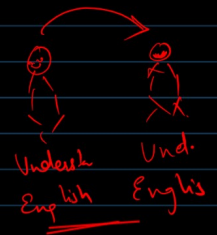
- \rightarrow Relevant degree (not compulsory)
- \rightarrow Skills
- \rightarrow Continuous learning & Certification

Skills



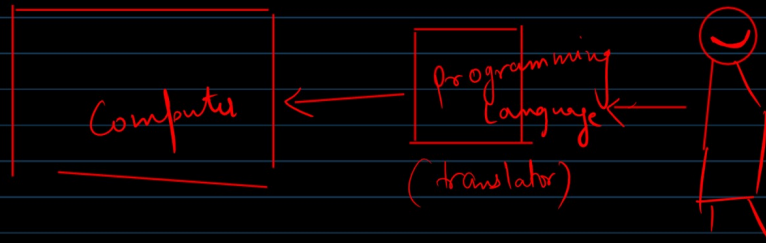
* Programming language :-

A programming language is a formal language for creating instruction for a computer to follow.



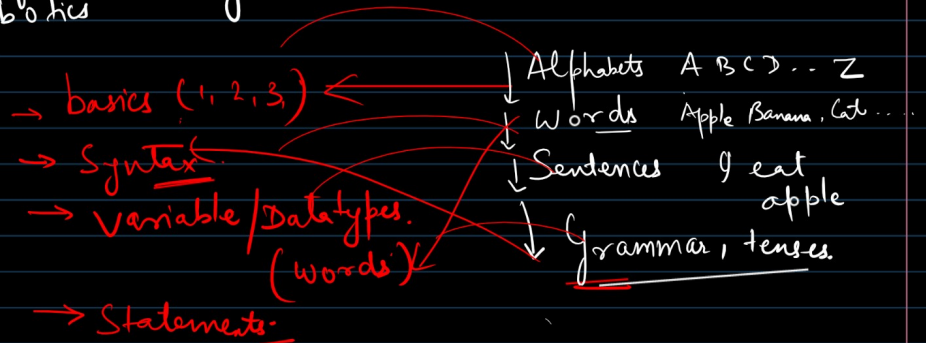
→ Set of rules & symbols that define the process of computer program.

→ Language, Environment



Why?

- Interaction with Computers
- Software Programs
- Robotics
- AI



Why Python?

- Ease of learning
- Widely Used in Industry
- A lot of libraries
- A huge community
- backend, backend.
- Automation
- databases

IDE's

↳ Integrated Development Environments

→ A software that consolidates basic tool required for software development

- Google Colab
 - Jupyter Notebook.
 - VScode
 - Pycharm.
- =