How is data science defined:

Data science combines math and statistics, specialized programming, advanced analytics, artificial intelligence (AI), and machine learning with specific subject matter expertise to uncover actionable insights hidden in an organization's data. These insights can be used to guide decision making and strategic planning. **Definition Source**
IBM Website

How is the data scientist:

- Data Retrieval
- Analysis to obtain patterns and trends

How to be a data scientist?

- Education
  - Degree program or boot camp
    - Depends on the company

- Accept skills through portfolio

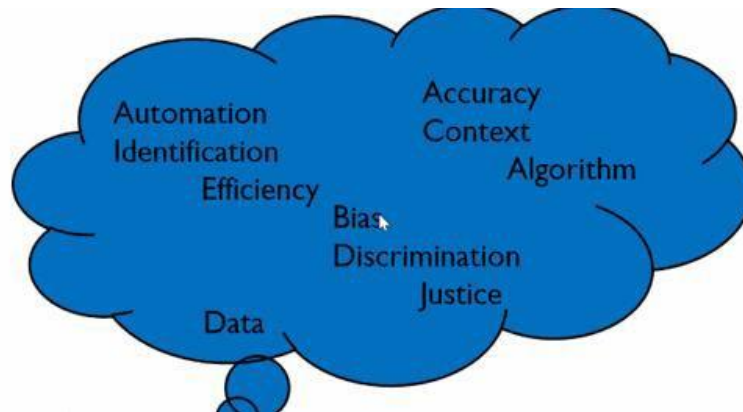| Bootcamp vs Degree	
Cost	
More expensive	Less expensive
Structure	
In-person	In-person Online Hybrid
Time Commitment	
Months	4 years
Duration	
Courses for months	Semester-long
Certificate Type	
Certificate	Degree
Skills Learned	
Skills that helped	Theoretical and practical info

<u>Needed skills to be a data scientist:</u>

- Familiarity with working with analyzing and visualizing Big Data
- Strong communication skills
- Ability to write code
- Knowledge of applying Machine Learning and Deep Learning to various problems
- Understanding of Artificial Intelligence workflows
- Analytical thinker

<u>Top 5 programming languages to be a data scientist:</u>

Challenges in data science

Data science workflow using Matlab