

data science topics

Topic : Introduction to data science

- Data scientist skills
- Data scientist responsibilities
- data vs information

Topic : Presenting data science projects

- Planning
- performing
- Data visualization
- Data analytics

Topic : Ethics of data science

- Code of ethics
- Privacy, transparency and security
- Consent
- Fairness and Algorithms

Topic : Data manipulation

- What is data manipulation?
- Tools
- Techniques

Topic : Artificial intelligence

- AI history
- Three phases of AI
- Learning processes
- Strong AI vs. weak AI
- AI ethics
- Case studies
 - business

- education
- healthcare
- finance

Topic : Machine Learning

- Mathematics for machine learning
 - Linear algebra and discrete mathematics
 - Multivariate calculus
 - Statistics
- Machine learning algorithms
- Machine learning pipeline
- Optimisation for machine learning

Topic : Deep learning

- Deep learning vs machine learning
- Natural language processing (NLP)
- Self learning
 - Self-learning agents in games

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