

What is Data Science?

Data science is an emerging discipline centers on analyzing data.

Data scientist is a specialist whose main task is to analyze and model data.

Data scientists may know SQL, statistics, predictive modeling (machine learning) and programming (Python, Matlab, R). They also have experience with techniques in transforming data into different formats (Data wrangling).

Data scientists use their skills and knowledge to analyze data with the goals of answering a question or discovering insights. They may use on the spot coding and interactive shells instead of complex applications for general purposes.

Final product of modeling and recommending is left to software engineer to build an interface design and object-oriented programming (computer scientists).

Mathematics

Statistics

Testing, Hypotheses, Regression, Clustering, Reduction, Mining

Programming

R, Python, SQL, Java, C

Visualization

Data Source

Financial, Business, Insurance, Health industry, Social Media, Language, Politics,

Genomic, Scientific