FACULTY OF INFORMATION TECHNOLOGIES

DEPARTMENT OF DIGITAL ECONOMY AND SYSTEM ANALYSIS

Data scientists are turning into detectives and artists, able to create increasingly accurate images of a person based on the digital trace left behind.
***Andreas S. Weigend**, writer, «Data for the People»*

English speaking master's program

INFORMATION TECHNOLOGIES AND BUSINESS ANALYTICS (DATA SCIENCE)

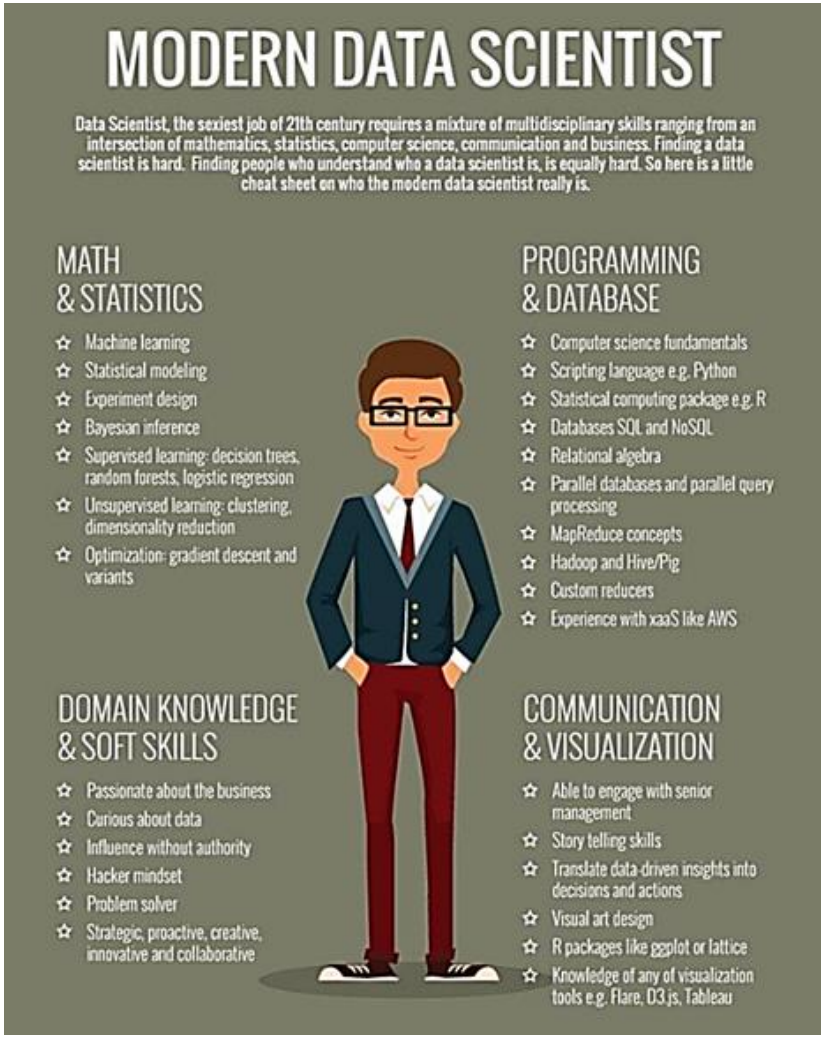
Disciplines of professional orientation:

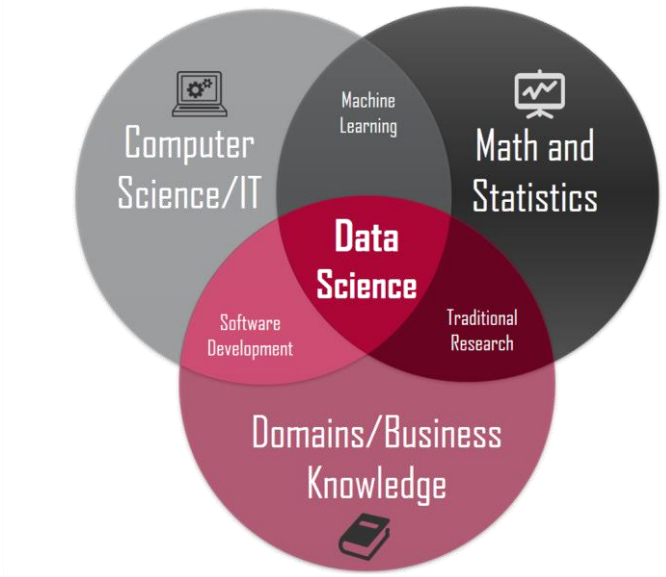
- Big Data Analytics
- Design of Recommendation Systems
- English for Data Analytics
- Intelligent Systems
- Knowledge Management
- System Analysis of Complex Economic Systems under Uncertainty

The main learning outcomes:

- To create and research the models of complex systems and processes using the methods of system analysis, mathematical, computer and information modeling.
- To apply the methods of machine learning and data mining, mathematical tools of fuzzy logic and artificial intelligence to solve complex problems of system analysis.
- To develop intelligent systems in conditions of poorly structured data.
- To develop and apply models, methods and algorithms for the forecasting and decision-making in conditions of conflict, fuzzy information, uncertainty and risk.
- To develop data and knowledge management models in complex systems.
- To perform intelligent analysis and Big Data processing by means of computer modeling.

Who is a Data Scientist?





Data Science is an interdisciplinary field of scientific methods, processes and systems related to the mining of knowledge from data in various forms.

Data Science technologies make it possible to turn data into information and then information into knowledge.

Data Scientist is not a programmer. This person is a specialist with excellent cross-disciplinary knowledge of mathematics, artificial intelligence, information technology and business and super-analytical skills.

Why is a Data Scientist exactly?

According to the most authoritative website Glassdoor, which annually publishes the most relevant professions, experts in the field of data analysis for 5 years in a row are among the leaders of the ranking

glassdoor | ECONOMIC RESEARCH Research Job Market Report Team

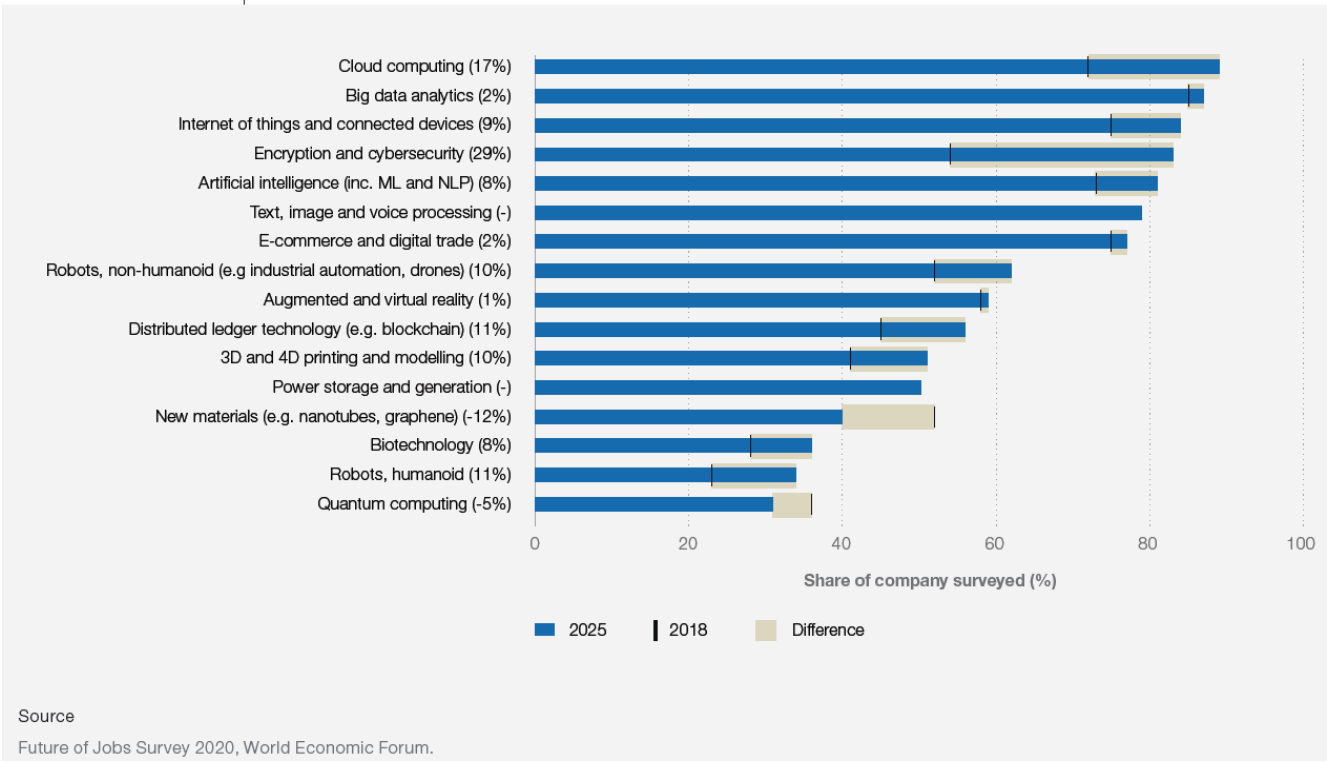
Top 10 Best Jobs in America for 2021

Rank	Job Title	Median Base Salary	Job Satisfaction	Job Openings
1	Java Developer	$90,830	4.2	10,103
2	Data Scientist	$113,736	4.1	5,971
3	Product Manager	$121,107	3.9	14,515
4	Enterprise Architect	$131,361	4.0	10,069
5	Devops Engineer	$110,003	4.0	6,904
6	Information Security Engineer	$110,000	4.0	5,621
7	Business Development Manager	$82,182	4.1	8,827
8	Mobile Engineer	$94,301	4.1	4,631
9	Software Engineer	$110,245	3.8	40,564
10	Dentist	$134,122	4.0	4,315

Source: Glassdoor Economic Research (Glassdoor.com/research)

According to the latest report of the World Economic Forum in 2025, 90% of companies in the world will need, first of all, the specialists in data analysis.

FIGURE 18 | Technologies likely to be adopted by 2025 (by share of companies surveyed)



Source

Future of Jobs Survey 2020, World Economic Forum.

Specialists in the Data analysis have the greatest increase demand of job roles among the future of jobs.

FIGURE 22 | Top 20 job roles in increasing and decreasing demand across industries

	↗ Increasing demand		↘ Decreasing demand
1	Data Analysts and Scientists	1	Data Entry Clerks
2	AI and Machine Learning Specialists	2	Administrative and Executive Secretaries
3	Big Data Specialists	3	Accounting, Bookkeeping and Payroll Clerks
4	Digital Marketing and Strategy Specialists	4	Accountants and Auditors
5	Process Automation Specialists	5	Assembly and Factory Workers
6	Business Development Professionals	6	Business Services and Administration Managers
7	Digital Transformation Specialists	7	Client Information and Customer Service Workers
8	Information Security Analysts	8	General and Operations Managers
9	Software and Applications Developers	9	Mechanics and Machinery Repairers
10	Internet of Things Specialists	10	Material-Recording and Stock-Keeping Clerks
11	Project Managers	11	Financial Analysts
12	Business Services and Administration Managers	12	Postal Service Clerks
13	Database and Network Professionals	13	Sales Rep., Wholesale and Manuf., Tech. and Sci.Products
14	Robotics Engineers	14	Relationship Managers
15	Strategic Advisors	15	Bank Tellers and Related Clerks
16	Management and Organization Analysts	16	Door-To-Door Sales, News and Street Vendors
17	FinTech Engineers	17	Electronics and Telecoms Installers and Repairers
18	Mechanics and Machinery Repairers	18	Human Resources Specialists
19	Organizational Development Specialists	19	Training and Development Specialists
20	Risk Management Specialists	20	Construction Laborers

Source

Future of Jobs Survey 2020, World Economic Forum.

What do we offer

- Strong career opportunities and good competitiveness on the job market in any activity sphere
- Improvement of your knowledge of English and mastering the special terms of Data Science
- Problem-oriented and interactive studying methods by using modern educational technologies
- Modern IT-laboratories, including the new special computer laboratory of Business Analytics
- Highly qualified scientific and teaching staff with practical experience in the field of Data Analytics
- Possibility of parallel studies in the joint Ukrainian-Slovak master's program «International Business Analytics».

What job you will be able to get

- Business Analyst
- Computer Data Bank Analyst
- Consolidated Information Analyst
- Data Administrator
- Professional in project and program management
- Researcher-consultant (computer systems)
- Researcher-consultant (information analytics)
- System Analyst

VŠEMVS
IT ASOCIÁCIA SLOVENSKA

DIPLOMA

to

KYIV NATIONAL UNIVERSITY OF TRADE AND ECONOMICS

for

Successful Completion of the Accreditation Process of the Joint Master's Degree in the Study Program

"MEDZINÁRODNÉ PODNIKATEĽSKÉ ANALÝZY
МІЖНАРОДНА БІЗНЕС-АНАЛІТИКА".

STUDY PROGRAM CODE: 183667

Bratislava, March 26th, 2019

Dr.h.c. prof. Ing. Viera Cibáková, CSc.
Rector
School of Economics and Management of Public Administration

Mário Lelovský
First Vicepresident
IT Association of Slovakia