



MSc in

# COMPUTATIONAL DATA SCIENCE

## About the program

The program hones advanced skills in data analysis, machine learning, and computation, technology, healthcare, and finance. The program blends computer science and mathematics and is awarded upon fulfilling program requirements—taught courses, a project, and a thesis. The program includes research-informed teaching, case studies, seminars, course projects, and a thesis, delving into emerging trends and cutting-edge technologies in data science.

The program combines computer science and statistical techniques to analyze big data, providing graduates with skills applicable in diverse industries, including finance, telecommunications, national security, healthcare, energy, manufacturing, and utilities.

The program offers cutting-edge labs for hands-on learning, featuring specialized software and tools for visualization, predictive modeling, and AI to drive research across diverse domains.

## Tracks

- M.Sc. in Data Science concentration: electives and the thesis must be in the domain of data science
- M.Sc. in Data Analytics concentration: electives and the thesis must be in the domain of data analytics
- Data scientists are highly sought after in advanced financial markets in the US and across the globe.

## The graduates of the program will

Make data-driven decisions across sectors, driving innovation, and optimizing processes.

The program offers Cutting-edge up-to-date Curriculum, Highly qualified Faculty Expertise, Research Opportunities available to students in specialized research centers.

Find industry connections, a diverse and inclusive environment, state-of-the-art facilities and resources.



جامعة خليفة  
Khalifa University

ku.ac.ae



# WHY KHALIFA UNIVERSITY?



## GLOBAL RECOGNITION

Khalifa University stands out as the leading institution in the UAE, with 90 of its faculty members acknowledged among the world's top 2% most-cited scientists in Stanford University's prestigious 2023 listing.



## CONSISTENTLY HIGH-RANKED

Ranked top in the UAE, 2nd in the Arab world, and ranked 27th in Asia in Sustainability; and among top 250 in the world



## GLOBALLY-ACCREDITED ACADEMIC PROGRAMS

Khalifa University is fully licensed and all its programs are accredited by the Commission for Academic Accreditation (CAA) of the UAE Ministry of Education.



## UNIQUE AND DIVERSE RESEARCH

Including energy, water and environment, healthcare, aerospace, cybersecurity, Intelligent Systems, advanced materials, and fundamental science..



## WORLD'S SAFEST CITY

Abu Dhabi, the largest emirate in the UAE, remains the world's safest city for the 8th consecutive year in 2024. Experience safety and a cosmopolitan lifestyle that enhances your learning experience, reinforcing its status as a safe and secure place to live, work, study, and invest.



## EXPERT GUIDANCE

We are committed to empowering students for success, fostering collaboration in a diverse community led by world-class faculty. Experience personalized guidance and a conducive learning environment with an impressive 11:6 student-to-faculty ratio, ensuring your path to success is well-supported and rewarding.



## DYNAMIC CAREER OPPORTUNITIES

Attractive graduate employment opportunities across a wide spectrum of industries with the opportunity to present research projects at major international conferences.