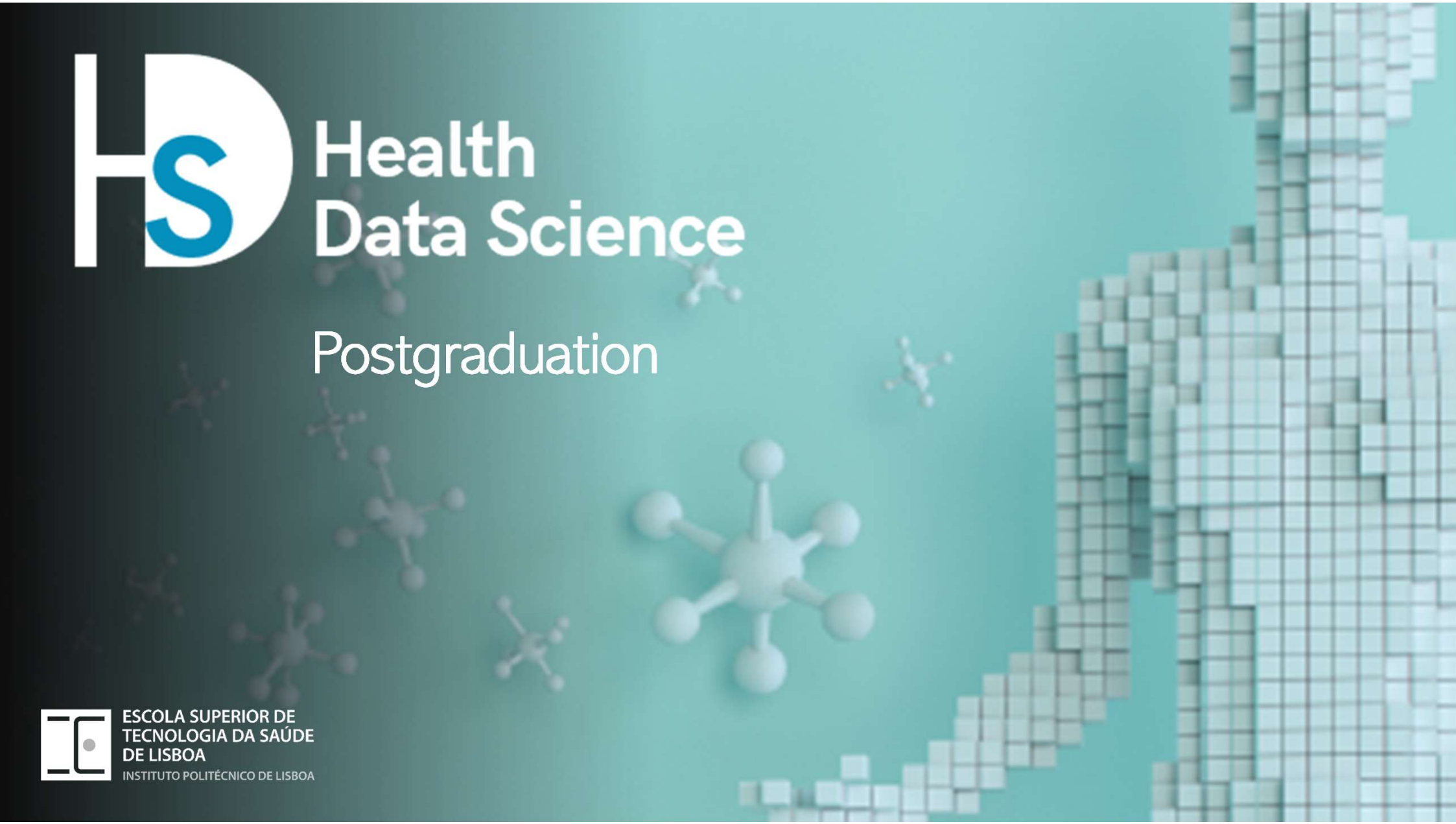
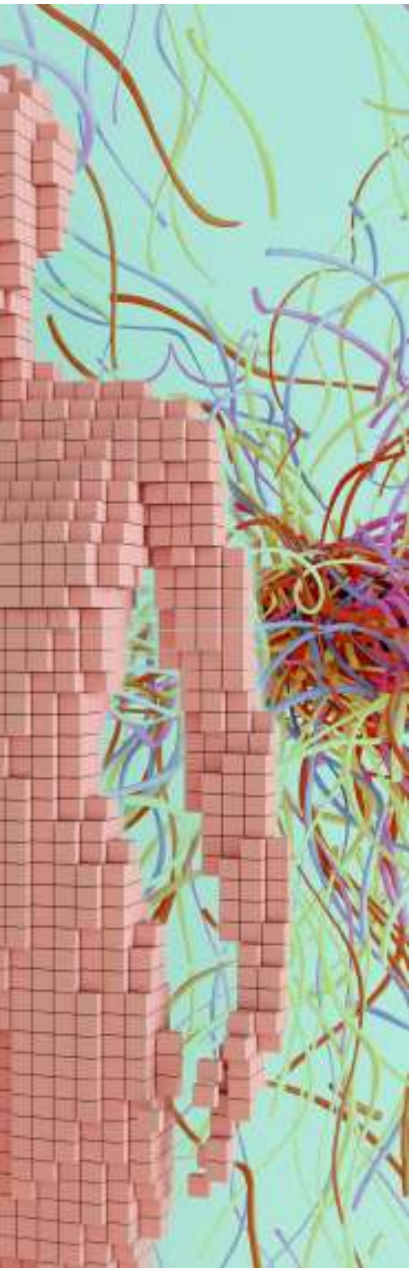

Health
Data Science
Postgraduation
ESCOLA SUPERIOR DE
TECNOLOGIA DA SAÚDE
DE LISBOA
INSTITUTO POLITÉCNICO DE LISBOA

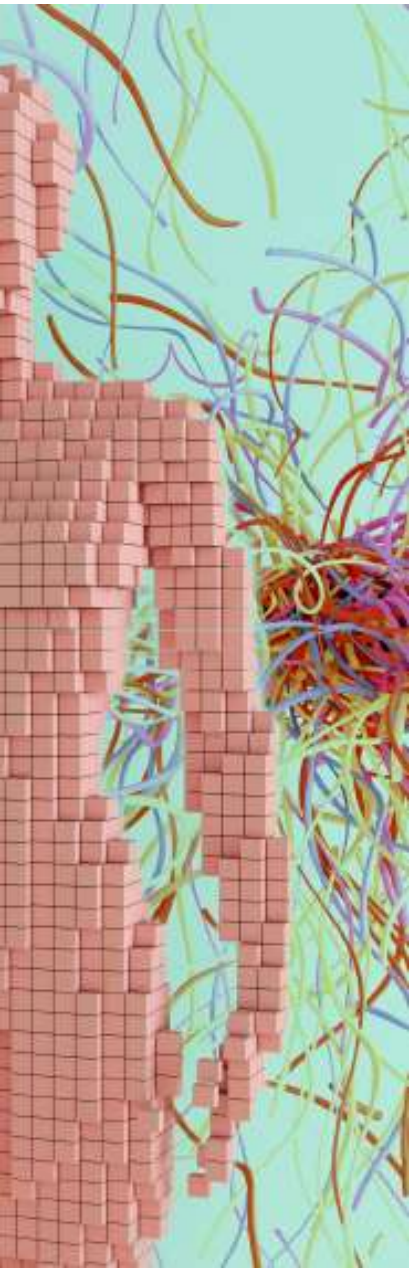


Why this course

Health Data Science

Because optimizing your data science skills can improve your therapeutic options, your healthcare organization's outcomes and - most importantly - improve the health status of the population.

Because skills in health data analysis are as essential in an epidemic as in maintaining regular health care, thus crossing the different dimensions: clinical, risk assessment, management, etc.



About this course

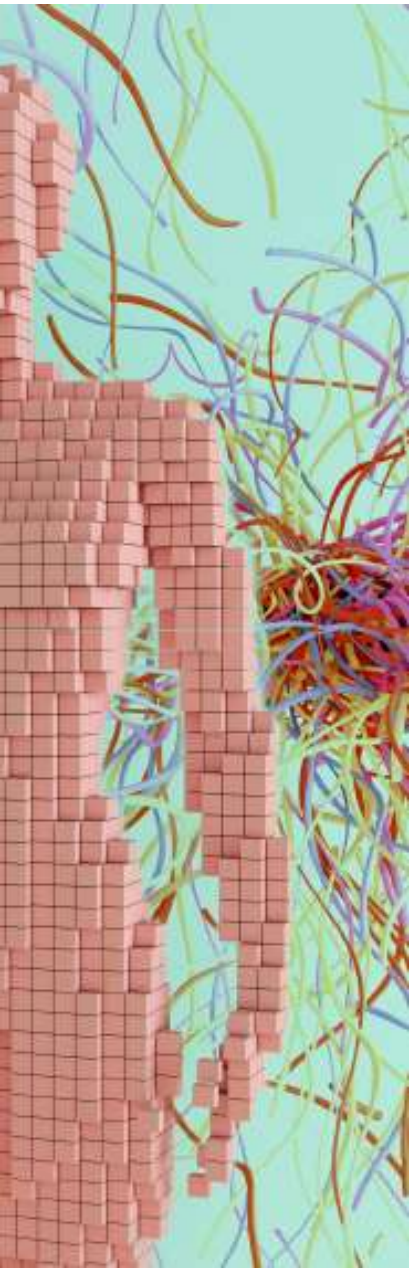
Health Data Science

Meets data science requirements in the new health era, towards data-driven innovative health solutions.

This program is practical, cross-disciplinary and closely linked to Healthcare organizations and industry.

Blends Healthcare organizations with Academia & Research.

Focus on value creation and health outcomes, through a translational approach in health, informatics and mathematics.

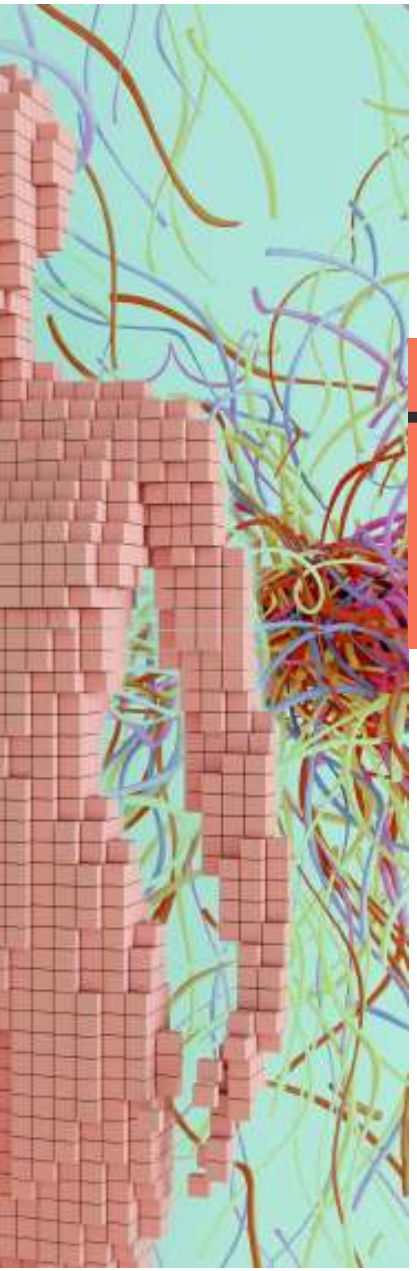


Who should take this course

Health Data Science

Professionals with the desire to improve their analytical capacity in order to transform data into knowledge, who seek to solve new and challenging problems and intend to develop a career in an area with enormous potential for growth.

If you have a degree in health, management, engineering, mathematics, computing or similar areas and you work, or wish to work, in health organizations/health-related industry, this is an excellent opportunity to join our Team!



About this course

1 year 60 ECTS

Health Data Science

I QUARTER
IDEATION

_Global and Population Health

_Analysis and Visualization of Health Data

_Challenges of Data Science in Health

II QUARTER
SOURCES & PREPARATION

_Programming Fundamentals

_Databases and Data Management

_Research Design in Health Organizations

_Identification and Interpretation of Needs in the Context of Health Organizations

III QUARTER
RESEARCH & DEVELOPMENT

_Multivariate Statistics

_Machine Learning

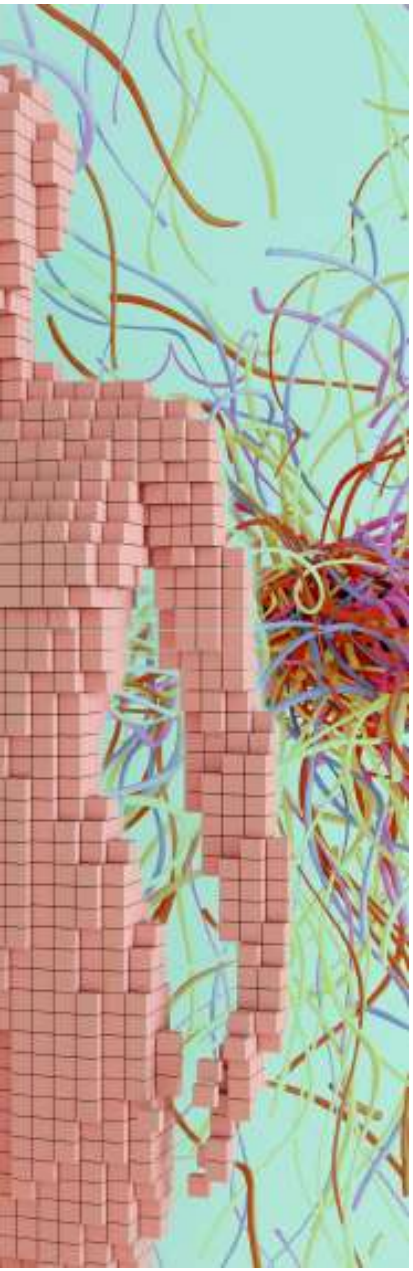
_Deep Learning

IV QUARTER
VALIDATION & MONITORING

_Big data and healthcare data management

_National health information systems

_Innovation and entrepreneurship



Program Council

Carina Silva, ESTeSL

PhD Probability and Statistics
Biostatistician

Gilda Cunha, ESTeSL

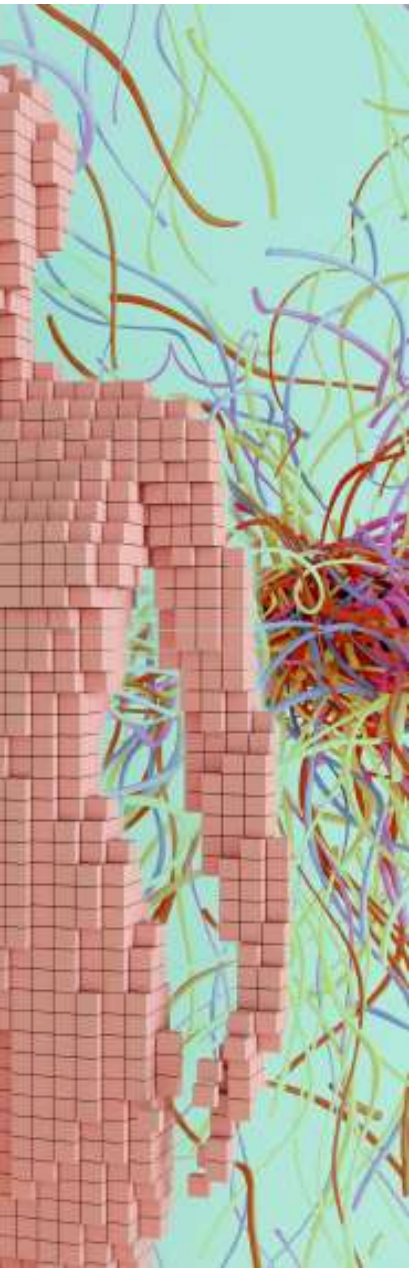
MSc Statistics and
Information Management

Ricardo Ribeiro, ESTeSL

PhD Biomedical Engineer
Medical Imaging Specialist

Marina Silva, ESTeSL

PhD Environmental Sciences



Our Team

Health Data Science

Marta Sousa, Habber Tec

Patrícia Narciso, Habber Tec

André Carreiro, Fraunhofer Portugal

Ricardo Ribeiro, ESTeSL

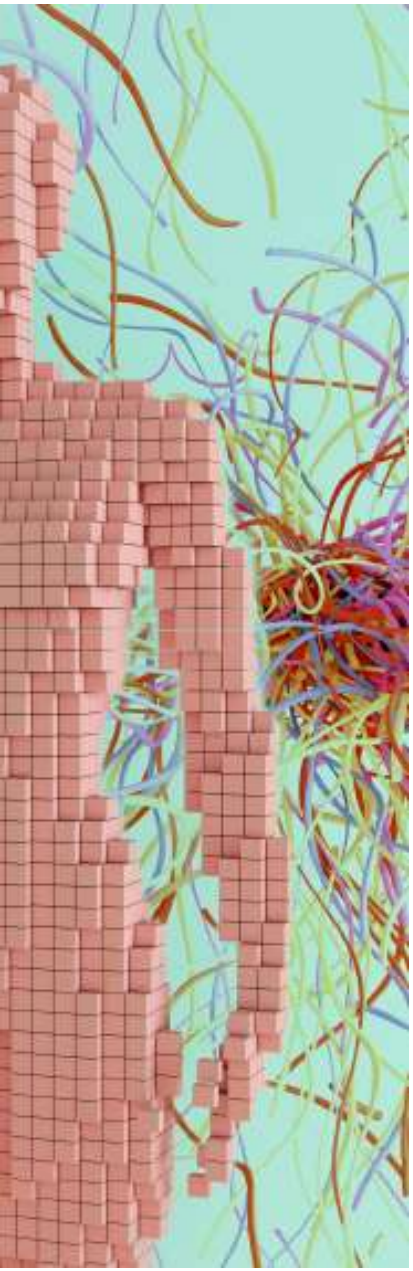
Alexandra Cerqueira, HCBM

Anabela Coelho, UEvora

Marina Silva, ESTeSL

Carina Silva, ESTeSL

Bruno Trigo, BIQ Health Solutions



What to expect after this program

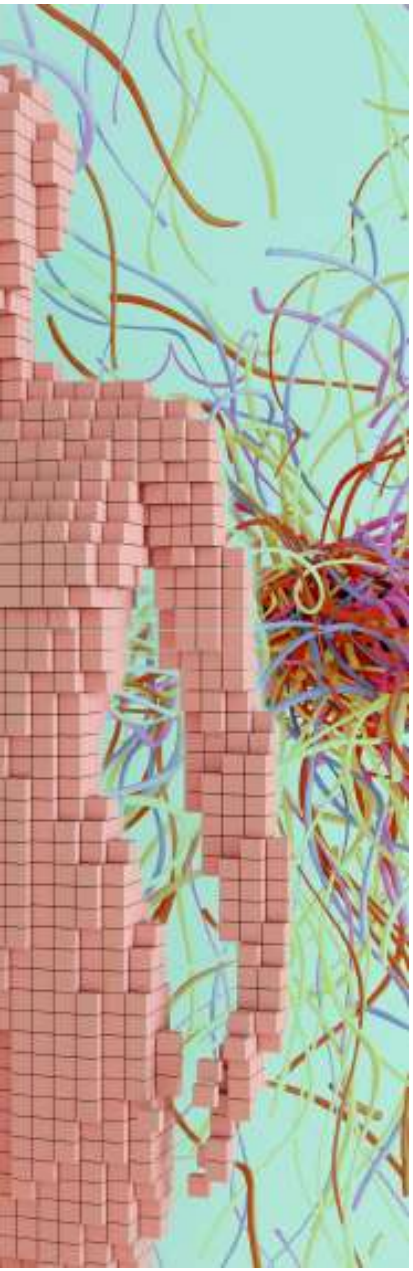
Health Data Science

Student will gain skills in health data science with a solid academic background meshed with business methodologies to meet healthcare needs.

Employers include government and health institutions, technology companies, consulting and research firms.

Prize for the best student
1000 euros
(Sponsered by Glintt)

Optional Internships at Glintt, a reference company in the Iberian Peninsula in Consulting and Technological Services



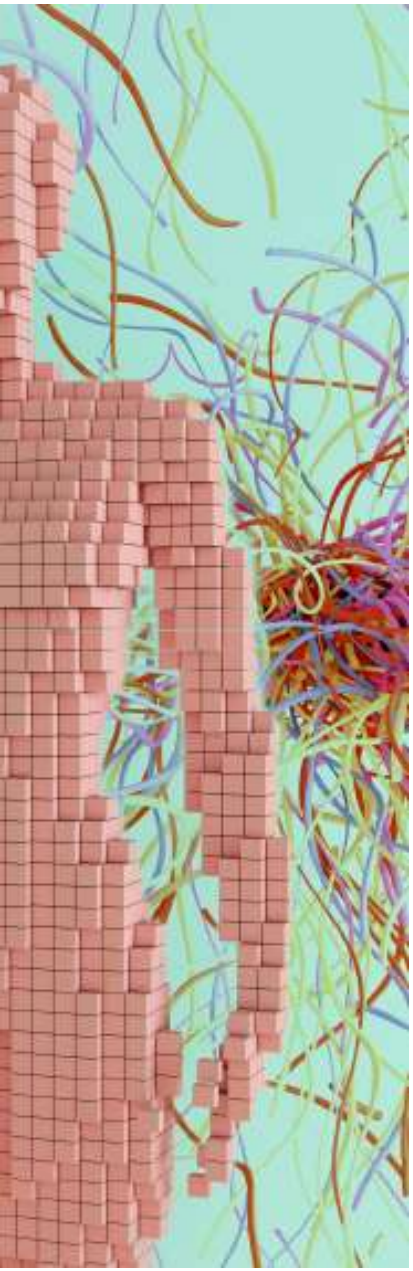
Important dates

Health Data Science

Kick-off Lesson: 11 September

Classes will be held September to July

Online classes will be held on Thursday, Wednesday and Tuesday, from 5:00pm to 9:00pm

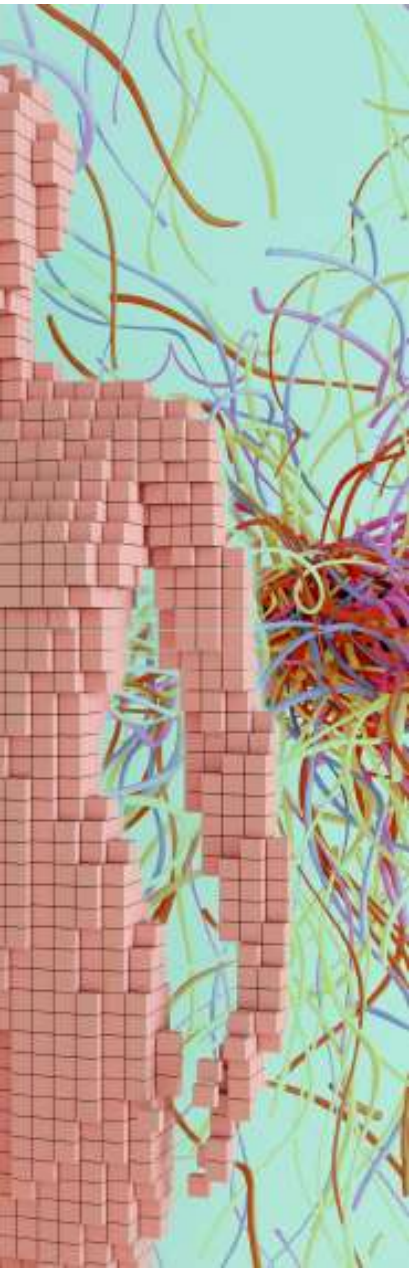


Stay tuned

Health Data Science

Email: hds@estesl.ipl.pt

Page: https://www.estesl.ipl.pt/cursos/pos-graduacoes/health-data-science



Health Data Science

CLEARING THE BOUNDARIES BETWEEN HEALTH AND DATA SCIENCE