



**LEEDS
BECKETT
UNIVERSITY**

Course information for applicants

This information applies to the course as it will be delivered to students starting the course in Choose an item..

Information provided here was confirmed on 20/05/2026

General information

Programme code

BDTAI

Target award

If you complete this course successfully you will be eligible for the award of:

BSc (Hons) Data Science and Artificial Intelligence

Delivery mode

- ☒ On campus
☐ Distance learning

Where you will study

The majority of teaching will be at Headingley campus but on occasion may be at City campus.

Professional accreditation or recognition

Professional body

British Computer Society (BCS)

Summary of the accreditation or recognition

The BCS endorsement is awarded to courses that meet specific criteria covering the necessary foundation of computing, including data science knowledge and technical skills, in addition to professional development competencies required to succeed in the profession. When reviewing a course, BCS considers the curriculum, the practical experience gained by students and the resources and facilities of the institution. The rigorous assessment criteria ensure that only the highest calibre courses achieve the BCS endorsement award.

Awarding body

Leeds Beckett University

Regulator

Office for Students

Level of qualification

Level 6 of the Framework for Higher Education Qualifications

Course duration

If you are made an offer of a place on the course, your offer letter will include the start date.

This course can be studied:

3 years full-time

4 years full-time with a placement year

6 years part-time

Part-time study

This course can be studied part-time.

If you study the course part-time, it will usually take twice as long to complete compared with the equivalent full-time course. The modules may be delivered in a different sequence than on the full-time course, but you will study the same modules at each academic level. With the agreement of the course team, you may be able to increase your pace of study to shorten the overall course duration.

As a part-time student, you will not usually have the option of a work placement.

Work placement

If you opt to undertake a full year placement and this is completed successfully you will have the words 'with placement year' added to the award title including for any contained awards that you are eligible for.

Placement Delivery

Students are responsible for obtaining their own placement, with assistance from the University.

Location

Placement location will vary dependant on the opportunity.

Approval

Whilst students source their own placements, they will need to meet requirements which will be outlined before module enrolment.

Entry requirements

Admissions criteria are available on the online prospectus entry for this course.

If you have previous relevant qualifications or experience, you could be exempt from certain parts of your course. Recognition of prior learning (RPL) allows you to start your course at a point appropriate to the learning and skills that you may have developed in a professional, vocational or community setting.

Find out more here: <https://www.leedsbeckett.ac.uk/student-information/course-information/recognition-of-prior-learning>

If you have questions about entry requirements and admissions, contact AdmissionsEnquiries@leedsbeckett.ac.uk

Course fees

Course fees and a breakdown of any additional costs is included on the online prospectus entry for this course.

If you have questions about fees for this course, contact Fees@leedsbeckett.ac.uk

Timetable

You will receive your full timetable for the year during induction week.

What you will study

Course aims

Data Science has a long history within the university having evolved from our areas of information management, knowledge transfer and systems development. In practical terms, data science is conducted as part business analyst, part data engineer, part data analyst, part computer scientist and part 'core' or 'research' data scientist. The role of these managers therefore falls into the following respective domains:

- From a business perspective, data scientists are articulate, good communicators, presentable and have contact with the day-to-day business managers and their customers. They are primarily concerned with the information needed for activities such as strategic planning, production planning, market research, financial planning, product knowledge, legislation, archiving, competitive analysis etc. They understand the potential, adept at using tools and techniques to analyse data and how best to present the information.
- From a data engineering perspective, data scientists are skilled in managing information technology and understanding the role of data within an organisation. They need to appreciate and acquire the know-how of relevant technologies, and systems (including theories, practice, and working mechanisms), what the latest trends are and their impact on the working environment.
- From a data analyst perspective, data scientists have an empathy with their data. They understand how it can answer queries and provide useful insights and recommendations. They appreciate the power of visualisations to communicate their ideas and findings.
- From a computer scientist perspective, data scientists have understanding of the role of technology in data collection, transmission, manipulation, analysis and storage.

As core data scientists, data scientists draw on new and powerful data analytic techniques such as machine learning and Artificial Intelligence (AI) to gain better insight, estimation and predictions using supervised as well as unsupervised learning.

Teaching and learning activities

The Course employs a wide range of learning opportunities and teaching methods, informed by curriculum review, research-based pedagogical approaches and continuous staff development. Innovative approaches to teaching, learning and assessment include the use of simulations, case studies, projects, practical work, work-based learning, formative face-to-face and online collaborative discussion, collaborative and applied learning, projects, and practitioner informed teaching and student-led learning.

Scheduled sessions include the use of lectures, seminars, tutorials and practical laboratory sessions. Advantage is taken of both technology and supportive activities to ensure that effective learning takes place.

Course structure

This information is correct for students progressing through the course within standard timescales. If you have to repeat study or take time out during your course, you may be taught alternative modules which meet the overall course learning outcomes.

The option modules listed may vary. Those listed here are likely to be offered in a typical year.

Full Time Delivery

Level 4

Compulsory modules

Module title	Credits	Semester/teaching period
Introduction to Data Analytics	20	S1 / Year 1
Maths for Data Science and AI	20	S1 / Year 1
Fundamentals of Computer Science	20	S1 / Year 1
Fundamentals of Databases	20	S2 / Year 1
Statistics in Practice	20	S2 / Year 1
Fundamentals of Computer Programming	20	S2 / Year 1
Total number of credits of compulsory modules:	120	

Level 5

Compulsory modules

Module title	Credits	Semester/teaching period
Applied Data Analytics and Visualisation	20	S1 / Year 2
Machine Learning Techniques for AI	20	S1 / Year 2
Database Systems	20	S1 / Year 2
Team Project	20	S2 / Year 2
Programming for Data Science	20	S2 / Year 2
Digital Transformation	20	S2 / Year 2
Total number of credits of compulsory modules:	120	

Placement year (if chosen)

Compulsory modules

Module title	Credits	Semester/teaching period
Placement Module	120	Min 40 weeks

Level 6

Compulsory modules

Module title	Credits	Semester/teaching period
Advanced Machine Learning for AI	20	S1 / Year 3
Advanced Database Systems	20	S2 / Year 3

Critical Perspectives on Information	20	S2 / Year 3
Production Project	40	S1 & 2 / Year 3
Total number of credits of compulsory modules:	100	

Option modules

Module title	Credits	Semester/teaching period
Developing Mobile Applications	20	S2 / Year 3
Intelligent Computer Vision	20	S2 / Year 3
Software Service Architectures	20	S2 / Year 3
Total number of credits of elective modules a student must enrol on:		

Part Time Delivery

Level 4

Compulsory modules

Module title	Credits	Semester/teaching period
Introduction to Data Analytics	20	S1 / Year 1
Maths for Data Science and AI	20	S1 / Year 1
Fundamentals of Computer Science	20	S1 / Year 2
Fundamentals of Databases	20	S2 / Year 1
Statistics in Practice	20	S2 / Year 2
Fundamentals of Computer Programming	20	S2 / Year 2
Total number of credits of compulsory modules:	120	

Level 5

Compulsory modules

Module title	Credits	Semester/teaching period
Applied Data Analytics and Visualisation	20	S1 / Year 3
Machine Learning Techniques for AI	20	S1 / Year 4
Database Systems	20	S1 / Year 3
Team Project	20	S2 / Year 4
Programming for Data Science	20	S2 / Year 3
Digital Transformation	20	S2 / Year 4
Total number of credits of compulsory modules:	120	

Level 6

Compulsory modules

Module title	Credits	Semester/teaching period
Advanced Machine Learning for AI	20	S1 / Year 5
Advanced Database Systems	20	S1 / Year 5
Critical Perspectives on Information	20	S2 / Year 5
Production Project	40	S1 & 2 / Year 6
Total number of credits of compulsory modules:	100	

Option modules

Module title	Credits	Semester/teaching period
Developing Mobile Applications	20	S2 / Year 5
Intelligent Computer Vision	20	S2 / Year 5
Software Service Architectures	20	S2 / Year 5
Total number of credits of elective modules a student must enrol on:		

Assessment and feedback

The balance of assessment may change depending on which option modules you choose.

Level 4

Level 4 is assessed by a mix of examinations, practical assessments, and coursework.

Level 5

Level 5 is assessed by a mix of examinations, practical assessments, and coursework.

Placement year

Level 5 placement is assessed by presentation and a report.

Level 6

Level 6 is assessed by a mix of examinations, practical assessments, and coursework.

Workload

You can expect to spend a total of 100 hours learning per 10 credits.

Typically, a student on this course can expect to divide their time like this:

Overall workload	Level 4	Level 5	Placement year (if chosen)	Level 6
Teaching, learning and assessment	288 hours	228 hours		169 hours
Independent study	912 hours	972 hours		1031 hours
Placement study			1200 hours	