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On any given day, we interact with a vast array of data collection sources, from payment systems to voice—activated personal assistants to smartphones.

This presents a tremendous opportunity for qualified data scientists who can critically evaluate this tidal wave of information, communicate their findings and help organisations make data—driven decisions.

360

earn three-hundred sixty

**CREDITS** 

3

complete in as few as three

YEARS

4

choose from four annual

START DATES

### Learning Outcomes



**Analyse** data and draw actionable insights for informed decision-making.



**Leverage** mathematical and statistical models to tackle real-world problems.



**Navigate** the intersection of business, management and data.



### Course Progression

#### Build your quantitative foundation.

Study mathematics, statistics, economics and other important numerical skills and concepts.

#### Develop your applied knowledge.

Focus on applications, techniques and methodologies in areas like machine learning, econometrics and information systems management.

#### Diversify your understanding.

Take courses in complementary disciplines like finance, management and economics, or further explore advanced quantitative areas.

#### **Graduate Entry**

Have you already earned a degree? You may qualify for our Graduate Entry route, which enables you to complete a shorter programme.

### Programme Structure

#### YEAR ONE

Science

YEAR TWO

YEAR THREE

MT1186 Mathematical Methods

**ST2195** Programming for Data

MN3141 Marketing Management

ST104A Statistics 1\*

**ST3189** Machine Learning

ST104B Statistics 2\*

ST2133 Advanced Statistics:

ST3188 Statistical Methods for

Distribution Theory\*

Statistical Inference\*

Marketing Research

**EC1002** Introduction to Economics

ST2134 Advanced Statistics:

MN1178 Business and

Management in a Global Context

MT2116 Abstract Mathematics

EC2066 Microeconomics

ST2187 Business Analytics, Applied

Modelling and Prediction

Open Choice\*\*

<sup>\*</sup> Half course

<sup>\*\*</sup> Open choice courses: Choose a) one 100-, 200- or 300-level course (or two half courses) from the course selection list (PDF 1.3 MB) or b) two LSE summer school courses.

#### Careers and Employability

Due to the proliferation of data and the increasing need for data-driven decision-making, the demand for data science professionals in a variety of roles has continued to grow across the globe. Data scientists work in a wide range of industries and sectors, for organisations of varying size and scope.

Sample	Industries

Academia

Consulting

Energy

Finance

Government

Health care

Retail and ecommerce

Technology

#### Sample Employers

Financial technology

companies

Health care organisations

Investment firms

Management consultancies

Multinational corporations

Private and commercial

banks

Public sector institutions

Universities and research

institutions

#### Sample Roles

Business analyst

Data scientist

IT consultant

Machine learning engineer

Operational researcher

Software developer

Systems analyst

Web designer

### Careers and Employability

Here are a few ways data-skilled professionals contribute to their organisations:

## Asking the right questions:

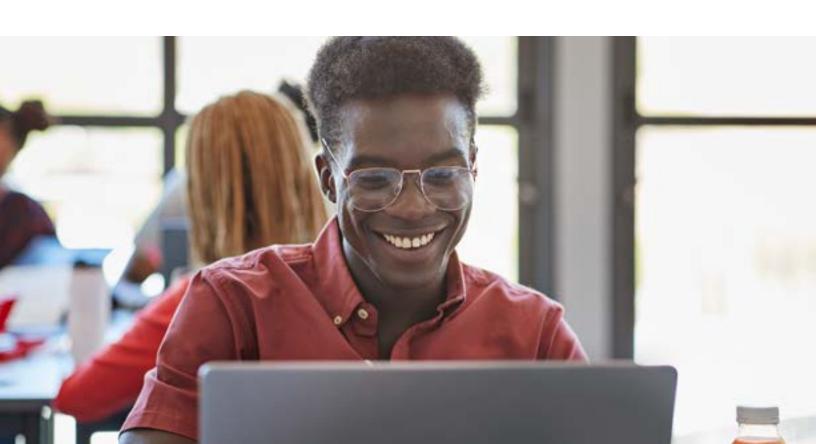
In addition to evaluating existing data, data professionals can help organisations determine what kind of data to collect and how it can be used to solve challenges.

## Extracting meaningful insights:

Data professionals use various techniques to make connections, establish relationships and trends, and predict future challenges for their organisations.

## Improving decision-making:

Data professionals can be conduits between technical and nontechnical teams, helping executives, engineers and marketers make data-driven decisions.





# Discover the Story Behind the Data

Ready to take the next step? Start your application and we'll pair you with one of our dedicated admissions counsellors.

**APPLY NOW** 

