Data Science Courses among Different Universities

Comparing data science courses among different universities

▶ All about Data Science

▶ Industry Link

▶ Differences Between Universities

▶ Module Database

What is Data Science, it's possible career paths and differences in roles?

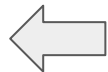|	Data Engineer	Data Scientist	Data Analyst	Business Analyst
Job Description	**Creates data pipelines**, big data platforms and data integrations in databases, data warehouses and data lakes, working with various cloud and on-premises technologies	**Gathers and analyses data** from databases and other source systems, **running machine learning algorithms and predictive models**; creates data visualisations for business users	Extracts data from data systems, **analyses** it and **creates reports and dashboards** to **highlight patterns or trends** and make predictions based off analysis	Extracts data from business systems, **analyses it and creates reports and dashboard to highlight trends** based on end users' business requirements.
Relevant Skills	Database and warehousing know-how, SQL, noSQL, Python, Java	Statistics, Python, R, Java, SQL, Machine Learning, Data Cleaning, Data Visualisation	Analytics, Python, R, Machine Learning, Data Visualisation	Analytics, reporting, data visualisation, consultancy, Python, R, Java, SQL

Industrial link

Key in your job description:
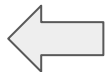
Type something...

Clear   Search

Result will be shown here...

Industrial link

Key in your job description:

I love apples

Clear

Search

Sorry, we couldn't find any relevant information...

Industrial link

Key in your job description:

Conduct data collection and analysis using SQL and Python

Clear

Search

1 [NUS - DSA (93%)](#)

2 NTU - DSAI (92%)

3 SIT - AAI (90%)

4 SUTD - BA (88%)

[Back to Main Page](#)

Industrial link

Key in your job des...

Conduct da...
using SQL a...

Clear

1

NUS - DSA (93%)

DSAI (92%)

AI (90%)

4

SUTD - BA (88%)

NUS Data Science and Analytics provides DSA2101 for data collection, CS1010S for python and CS2102 for SQL...

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Differences between Universities
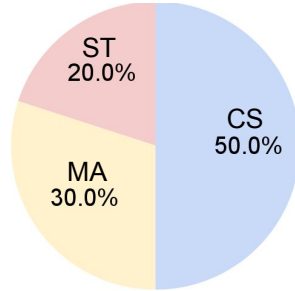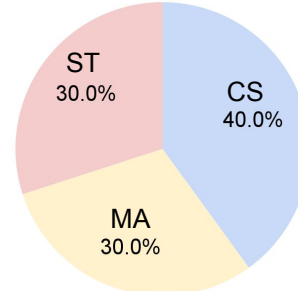
NUS

- ST 20.0%
- CS 50.0%
- MA 30.0%

NTU

- ST 30.0%
- CS 40.0%
- MA 30.0%

SMU

- ST 14.0%
- CS 36.0%
- MA 50.0%

SUSS

- CS 10.0%
- ST 40.0%
- MA 50.0%

SIT

- ST 10.0%
- MA 30.0%
- CS 60.0%

SUTD

- ST 20.0%
- CS 40.0%
- MA 40.0%
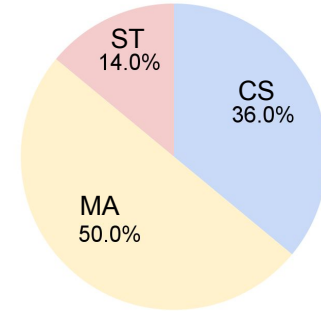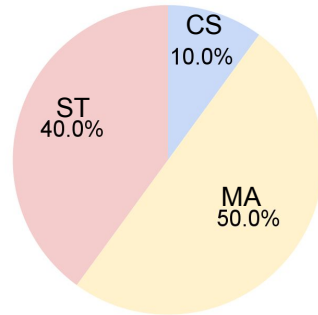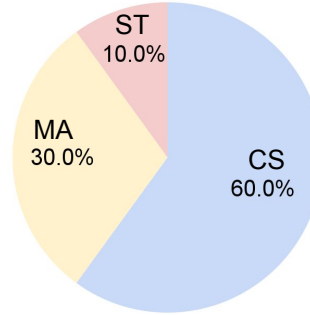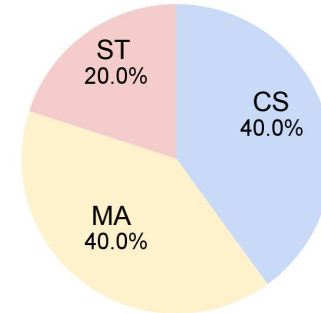
Legend: CS - Computer Science | MA - Mathematics | ST - Statistics

Differences between Universities

NUS

- CS 50.0%
- MA 30.0%
- ST 20.0%

NTU

- CS 40.0%
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SMU

- CS 36.0%
- MA 50.0%
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SUSS

- CS 10.0%
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- ST 40.0%

SIT

- CS 60.0%
- MA 30.0%
- ST 10.0%

SUTD

- CS 40.0%
- MA 40.0%
- ST 20.0%
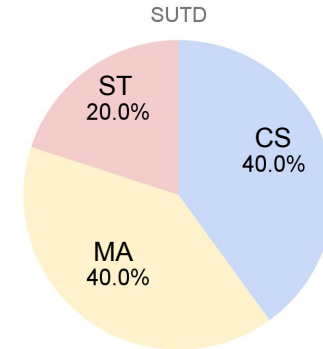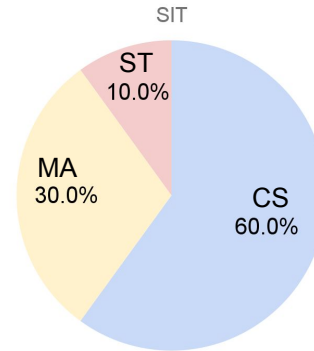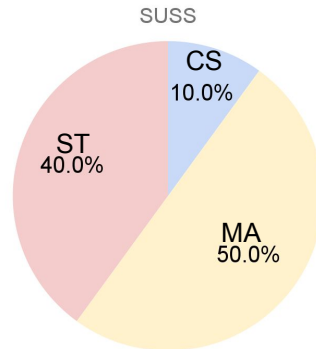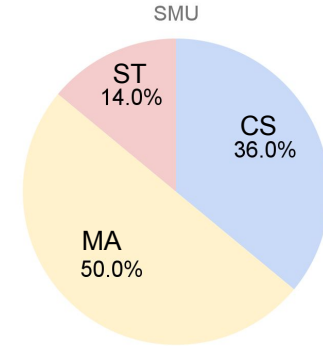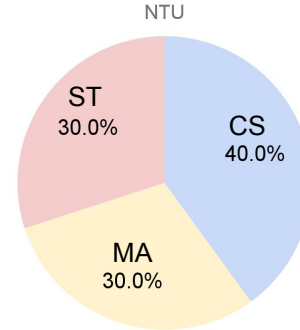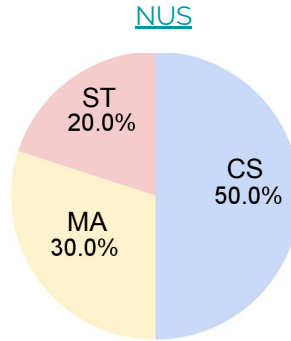
Legend: CS - Computer Science | MA - Mathematics | ST - Statistics

Comparison between schools by expected starting **Salary**

NUS — $7.8k

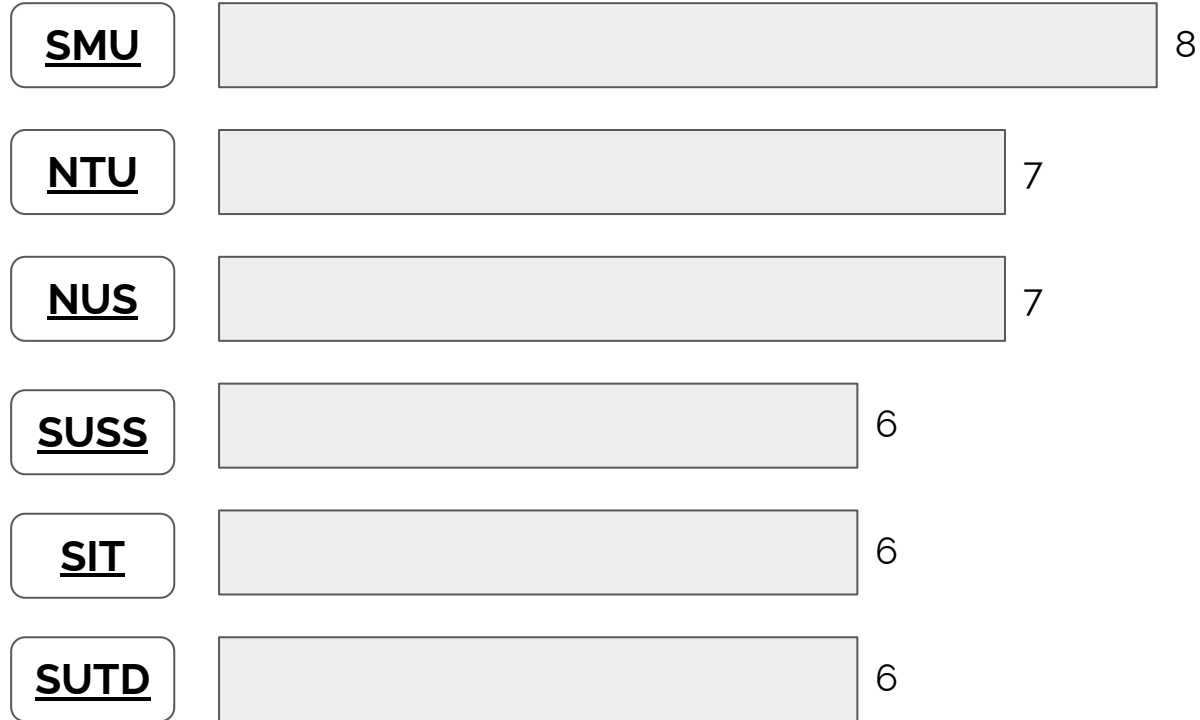**NTU** — $7.2k

SMU — $6.5k

SUSS — $6.4k

SIT — $6.3k

SUTD — $6.3k

*Source: may want to indicate which web we used as a source

Comparison between schools by **Practical Opportunities**

SMU — 8

NTU — 7

NUS — 7

SUSS — 6

SIT — 6

SUTD — 6

*Practical opportunities = number of internship/project based modules

Universities Modules Database

Select university

National University of Singapore ▼

Data Science and Analytics

Mathematics

Computer Science
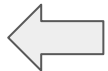
Statistics

University Course Roadmap

Result will be shown here...

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Universities Modules Database

Select university

National University of Singapore ▼
Nanyang Technological University
Singapore Management University
Singapore University of Technology and Design

Computer Science

Statistics

University Course Roadmap

Result will be shown here...

Universities Modules Database

Select university

National University of Singapore ▼

| Data Science and Analytics |
| ▷ DSA1101 |
| ▷ DSA2101 |
| ▷ DSA3101 |
| Mathematics |
| Computer Science |
| Statistics |

University Course Roadmap

Result will be shown here...

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Universities Modules Database

Select university

National University of Singapore ▼

Data Science and Analytics
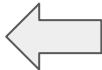
▷ **DSA1101**
▷ DSA2101
▷ DSA3101

Mathematics

Computer Science

Statistics

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University Course Roadmap
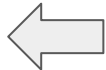
Module information

DSA3101
Introduction to Data Science
Statistics and Data Science • Science • 4 MCs
SU Option Available

The abundance of data being harvested from various sectors of today's society increases the demand for skilled data science practitioners. This module introduces foundational data science concepts to prepare students for tackling real-world data analytic challenges. Major topics include basic concepts in probability and statistics, data manipulation, supervised and unsupervised learning, model validation and big data analysis, alongside special topics discussed in guest lectures delivered by practicing data scientists from government and industry. Throughout the course, students will learn fundamental R programming skills to implement and apply the data science methods in motivating realworld case studies from diverse fields.

Prerequisite:
if undertaking an Undergraduate Degree then …

Preclusion:
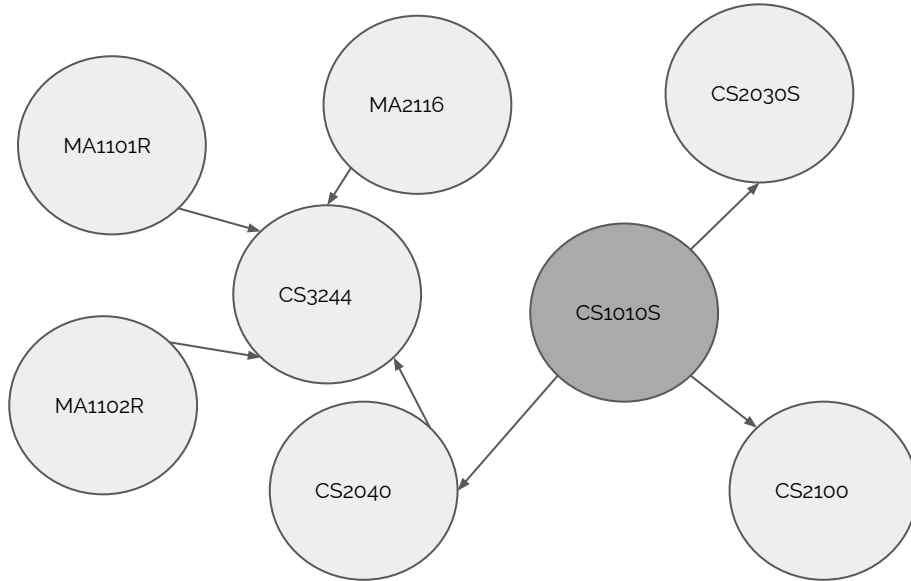if undertaking an Undergraduate Degree then (must not have completed 1 of DSE1101/YSC2239 at a grade of at least D)

Additional Information
 Included in Semester 1's Module Planning

Link: http://nusmod/dsa1101/sadchvsa23215
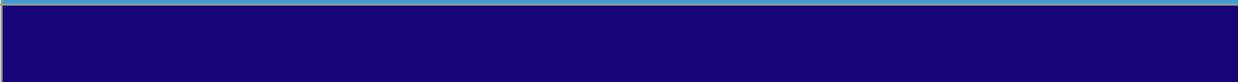
University Course Roadmap

How to read?

- *More important modules in terms of being prerequisites for many other modules have more branch out arrows.*

- *Module with more branch outs has higher saturation of fill color.*

	Colour Palettes
78C0E0	
449DD1	
150578	
0E0E52	
3943B7	