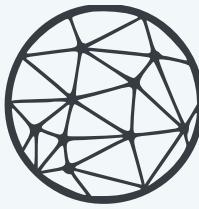


UCL DATA SCIENCE SOCIETY

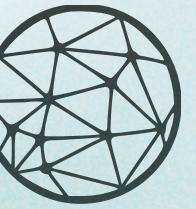
DSS PROJECT LABS 2026

What to Expect Term 2 | 20 Jan 2026



WHAT IS PROJECT LABS?

Core Aim	A cohesive workshop, focusing on guided, team-based project development and the acquisition of practical skills across the entire data pipeline.
Structure	6 week workshop over Term 2 (Jan - March) <ul style="list-style-type: none">• 5 Weekly foundational workshops• A real-world data project
Benefits	Gain portfolio-ready project experience, exposure to data science , and a deep understanding of project workflows.



PROJECT LABS TEAM

Role of the Lab Mentors:

- Technical Troubleshooting
- Project Scoping
- Industry best practices
- Narrative Building
- Work closely with participants to keep projects on track



Rachel
MSc Health Data Science
Topic: Finance

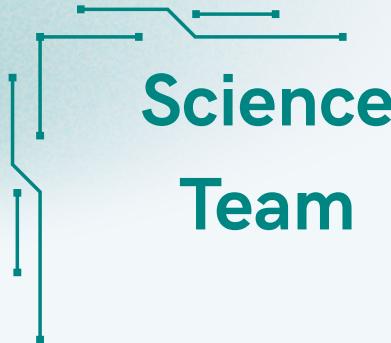
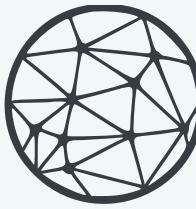


Jennifer
MSc Health Data Science
Topic: Health Data



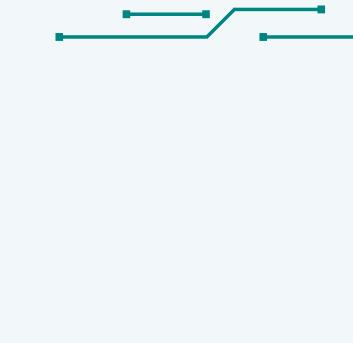
Liam
MSc Data Science and Machine Learning
Topic: Sustainability/Climate

THE SUPPORT SYSTEM



Science Team

Deep-dive Maths Tutorials



Mentoring

Dedicated time slots for feedback and oversight from Project Labs leads

Online Resources

All workshop materials will be uploaded and made accessible online to those enrolled in Project Labs.

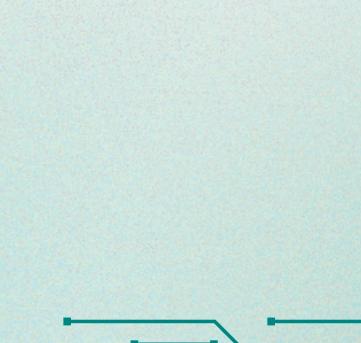
Peer Support

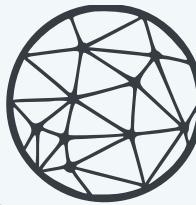
A dedicated group chat where members can ask for help, share progress, and collaborate throughout the workshop.



Reading Week

Independent exploration time to catch up or iterate





PROGRAMME TIMELINE

A WEEKLY BREAKDOWN

1

Formulating a Project

- Planning a Project
- From Ideation to Hypothesis
- Project Outline
- Group Allocation
- Introduction

2

Data Sourcing & EDA:

- Data Sourcing (the How and Where)
- Identifying the Appropriate Data Set
- Preliminary EDA

3

Project Tools + Data Wrangling

- Mastering Github and Project Management Tools
- Preparing Data
- EDA

4

Machine Learning:

- General Overview
- Simple ML Models (Regression, Decision Trees)
- Advanced ML (Time series, NNs, Ensemble)

5

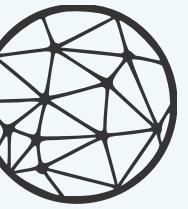
Soft Skills

- Project Storytelling
- Presentation Skills
- Deploying the project as a website
- Project Consolidation

6

Final Showcase:

- Teams present to panel
- Feedback, potential prizes and networking



THE PROJECT SHOWCASE

SHOWCASE YOUR IMPACT:

- Present your end-to-end project
- Panel of guest judges and wider DSS

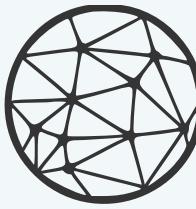
Awards:

- Prizes-in-kind for the showcase

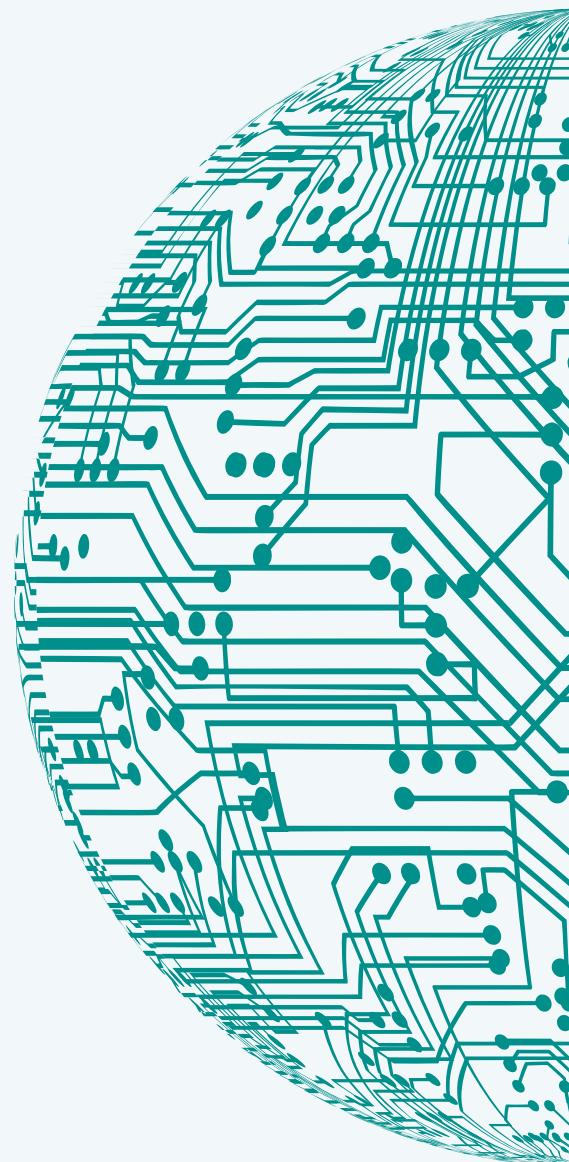
Networking:

- Connect with peers and mentors





WHAT IS EXPECTED OF YOU



01

Prerequisite Knowledge:

Familiarity with all Python content taught last term

- Pandas + NumPy

02

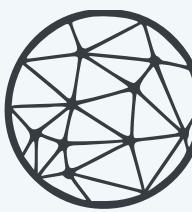
Participation & Engagement

- Attend weekly workshops
- Actively participate in sessions and group work

03

Project Requirements

- Work in groups of 2–3 to complete a data science project
- Present the completed project at the end-of-workshop showcase

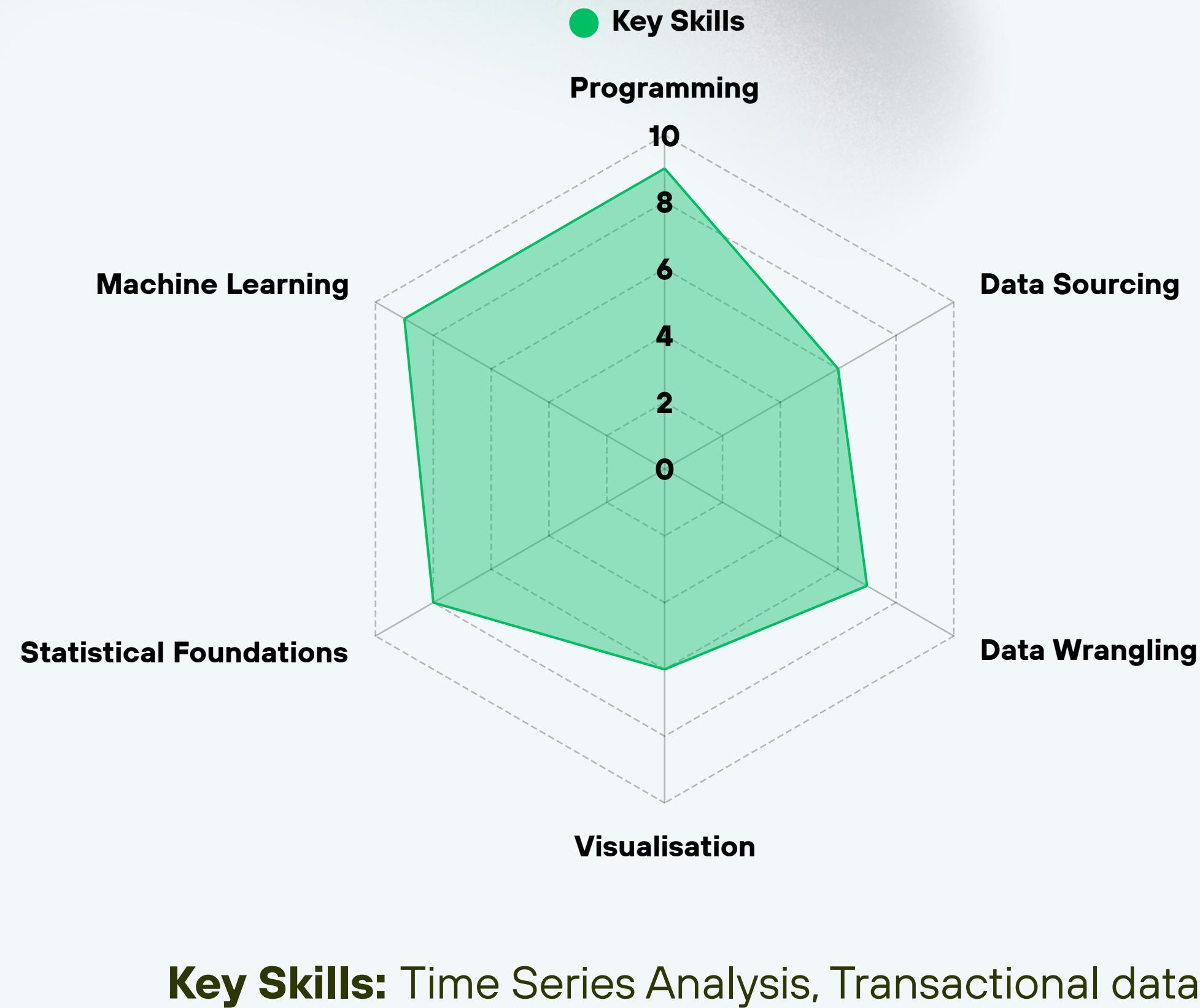


TOPIC 1: FINANCE

Explore how data science is used in finance. Teams will work end-to-end on projects using market, economic, or financial transaction data.

Potential Projects:

- Stock price analysis and return prediction
- Financial time series forecasting
- Fraud detection using transaction data



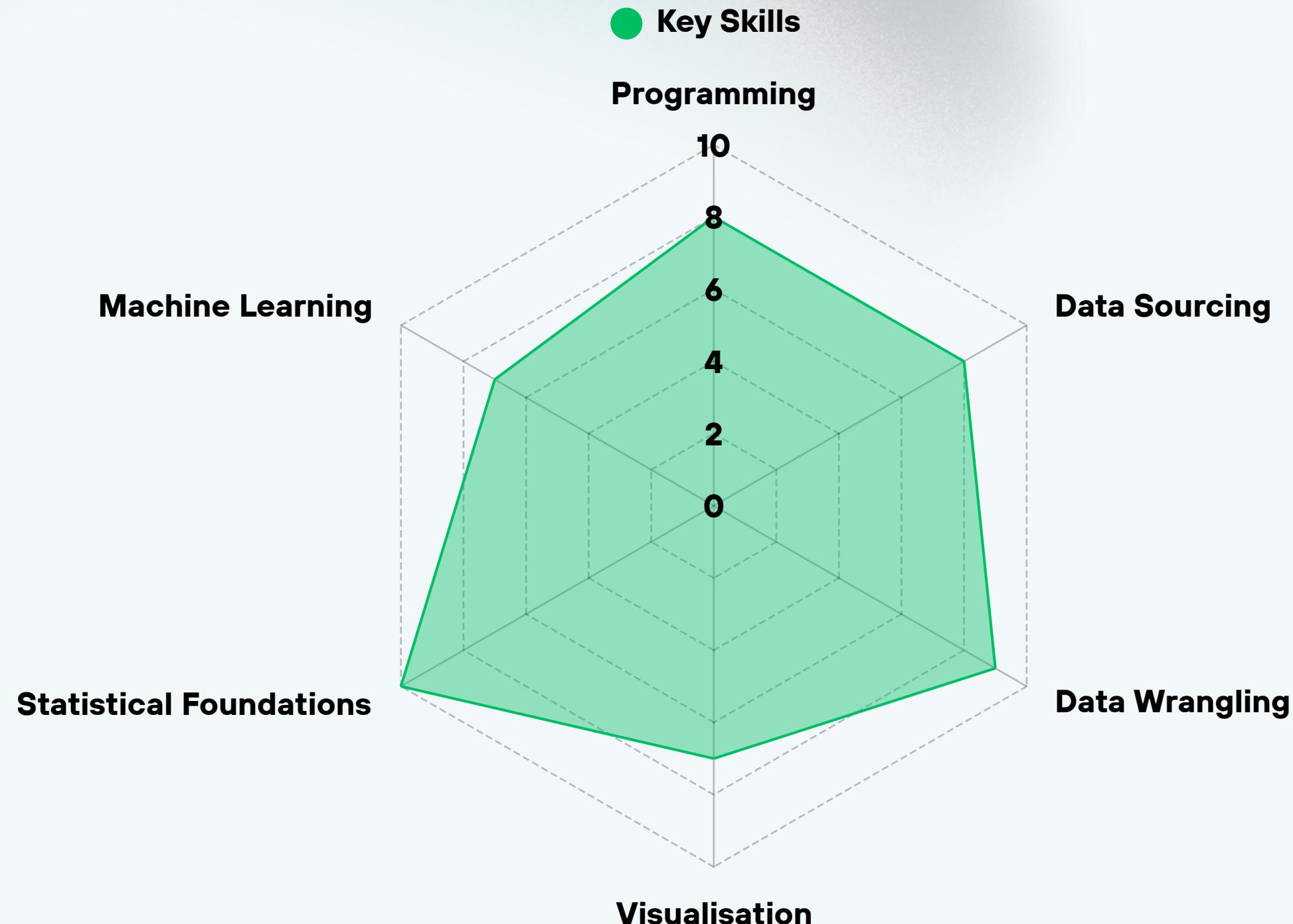


TOPIC 2: HEALTHCARE

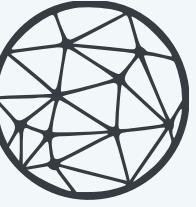
Explore how data science is used in healthcare.
Teams will work end-to-end on projects using
patient-level, clinical, or health outcomes data.

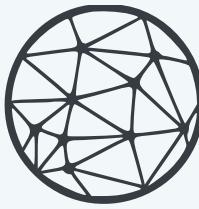
Potential Projects:

- Risk factor analysis using clinical variables
- Public health trends using health data
- Patient outcome prediction



Key Skills: Structured clinical data, Time-series Analysis



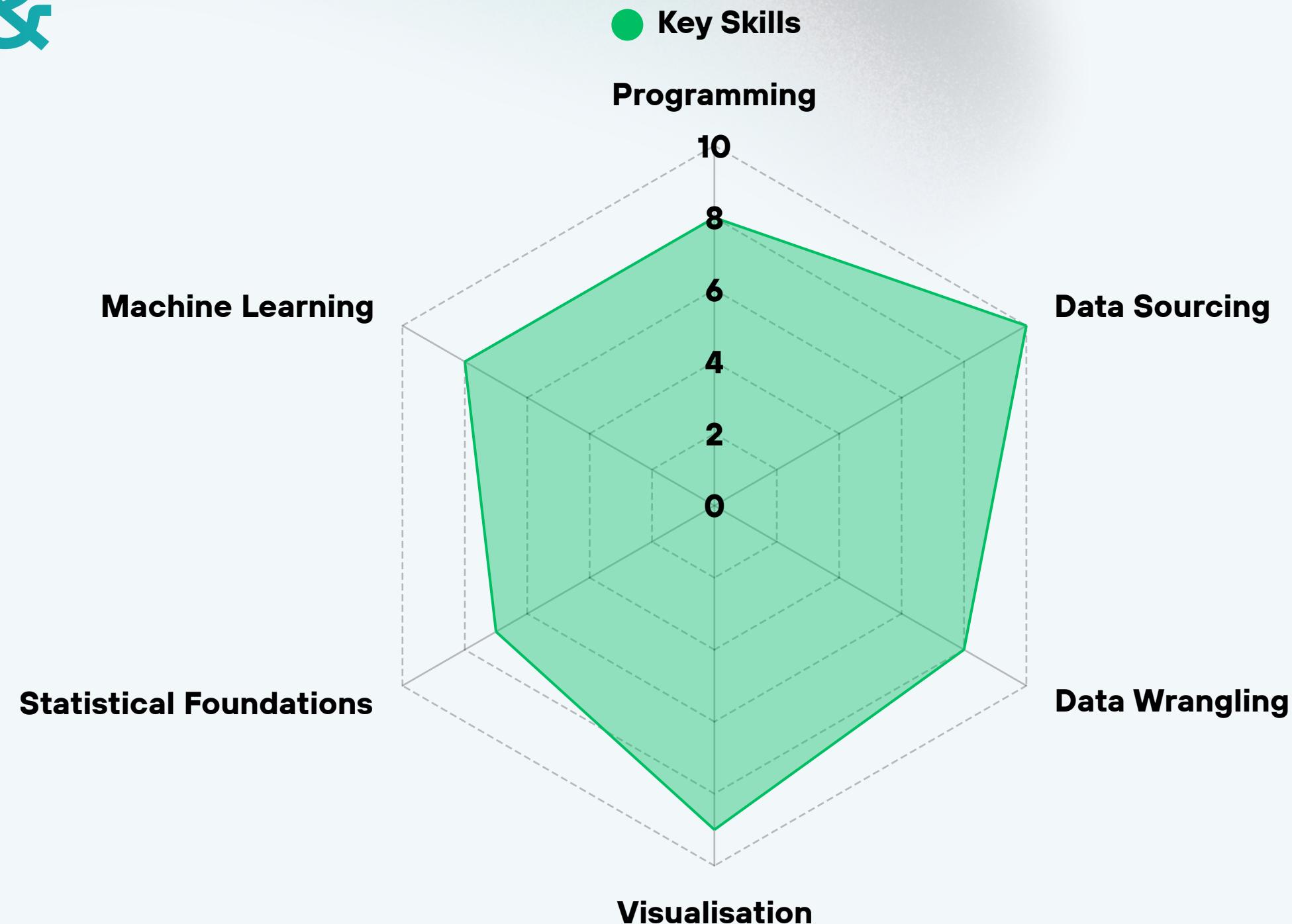


TOPIC 3: SUSTAINABILITY & CLIMATE

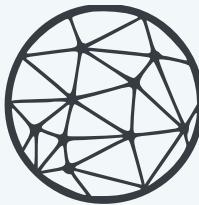
Apply data science to real-world sustainability and climate challenges. Teams will work end-to-end on projects using environmental and climate-related datasets.

Potential Projects:

- Energy consumption forecasting
- Carbon footprint tracking
- Climate change visualization



Key Skills: Geospatial Data, Time Series Analysis

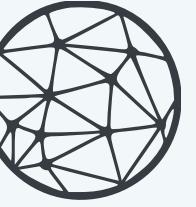


ADDITIONAL MATH TUTORIALS

Led by the Science Team

- **Open to all DSS Members**
- **Thursday** tutorials leading up to Reading Week
- Focused on **gentle, approachable** content for those without strong maths background
- Some topics covered:
 - Linear algebra
 - Statistics
 - Statistical Methods
 - Hypothesis Testing

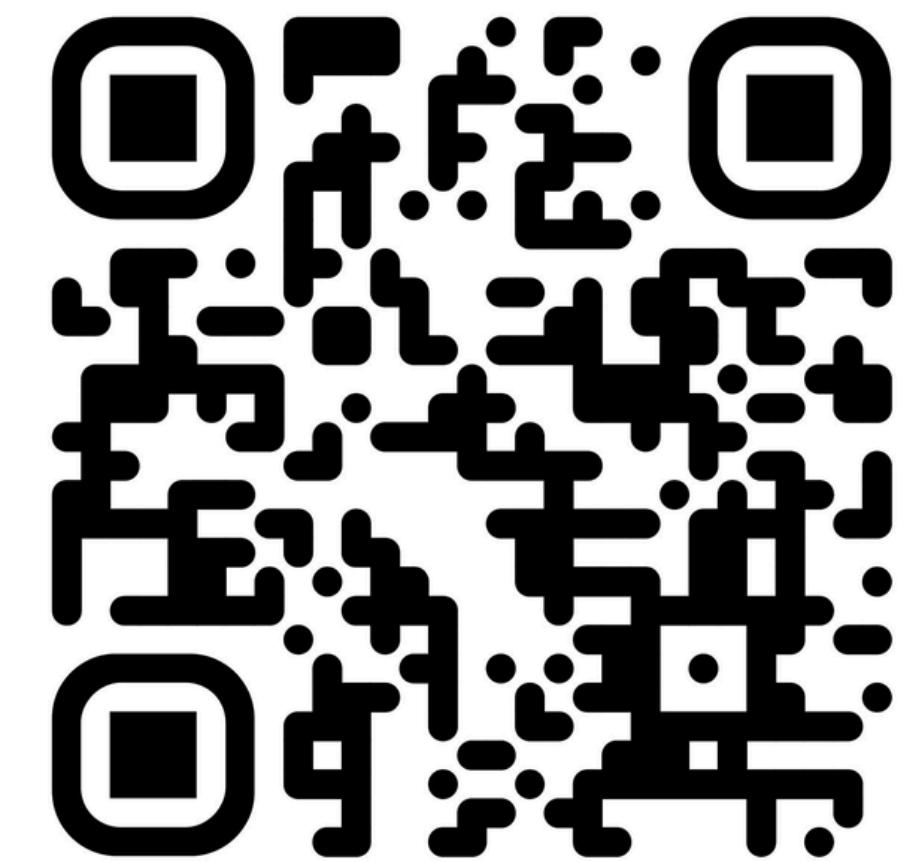
Note: Participants who plan to join PL and do not have a strong background are strongly encouraged to attend these workshops, as the material covered here will not be revisited in PL.

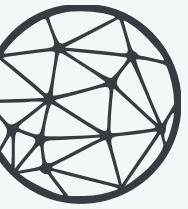


SIGN UP NOW

The First Session is on the **27th of January!**

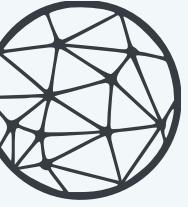
Scan the QR Code to Register.





THE UCL DATA SCIENCE PODCAST

- **Led by the DSS Research Division**
- **Bringing you insights from the world of data science and A.I**
- **Connecting students with UCL researchers and professionals in the field**



SIGN UP NOW

The First Session is on the **27th of January!**
Any questions?

Scan the QR Code to Register.

