



# Data Hackathon 101

**Session 1 - 2nd of November**  
**King's College London Health Science DTC**

# Goals of Data Hackathon 101

- Learn about **Data Science** approaches.
- Use the time to **code together** and **exchange ideas and experiences**.
- Using a **group effort** to solve a data challenge.





# What we hope to achieve

- Understand fundamental aspects of **coding** and **data analysis**.
- **Equip** ourselves with **data analysis** and **visualisation** tools.
- Cultivate the **hacking mindset**.

# Hackathon format



- The **first session (2nd Nov)** will introduce:
  - *Part 1*: Basics of Python programming.
  - *Part 2*: Data manipulation using *pandas*.



- The **second session (9th Nov)** will cover:
  - *Part 3*: Application of machine learning models using *scikit-learn*.

# Hackathon format



- On the [second session](#) (9th of November) of the event, we will introduce to you a [Hackathon data challenge](#).
- All of you will be [divided into 5-7 groups](#) based on your skills and experience.
- You will be given [a week to work together](#) and [investigate](#) a data challenge.
- On the [third session](#) (16th of November), [each group will give a presentation](#) about how they approached the given challenge... with prizes for the best presentations!



# Communication platform

Microsoft Teams will be used as a communication platform for:

- Main session presentations and live coding.
- Individual group discussion.
- Announcements.
- Technical help.



# Want to be involved?



Get in touch!

# Acknowledgments

King's HSDTC:  
Mr Matthew Coleman  
Dr Fiona Wardle







# Happy hacking!

Website:

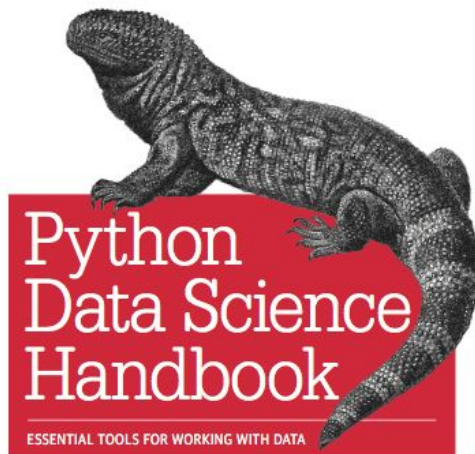
[https://khsdtc.github.io/Hackathon\\_Autumn2020](https://khsdtc.github.io/Hackathon_Autumn2020)

Challenge:

[https://github.com/KHSDTC/Hackathon\\_Autumn2020\\_Challenge](https://github.com/KHSDTC/Hackathon_Autumn2020_Challenge)

# Data Science Handbook

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Jake VanderPlas

<https://jakevdp.github.io/PythonDataScienceHandbook/index.html>