Data Fellowship: Hackathons

9-5pm, (8 hrs)

Module Overview

Apprentices attend two hackathons during the Data Fellowship, one after the Data Analytics and one after the Data Science bootcamp.

The hackathons are an opportunity for apprentices to *apply* their knowledge in a real-world setting using live datasets.

Apprentices will have the opportunity to **work in teams** to solve real-world business decisions. They will use the data analytics lifecycle to research, define, analyse and present a project to an independent panel.

The panel will be comprised of stakeholders that mirrors a real company (project owner, executive sponsor, data engineer etc).

Output

A visualisation and presentation that a non-specialist can follow.

Learning Objectives

- → Apply key concepts learned in the General Assembly bootcamps (Data Analytics & Data Science) in a real-world setting using live datasets
- → Work as a project team to research, define, analyse and present a project

Materials

- → Classroom space (dependent on cohort size)
- → Whiteboard
- → Projector
- → Power strips
- → Catering
- → Datasets
- → Assessment rubric

Coach Setup

- → Allocate apprentices into teams of 4-5 (dependent on cohort size)
- → Assign project brief to teams (if possible, assign teams to a brief that is different from the industry their company operates in)





Project Briefs

Data Analytics

The CMO for a travel company is looking to target 25-35-year-olds who are concerned about climate change.
The company has set itself the goal of reducing air travel for customers by 37% in 2020. The executive
sponsor has asked for your recommendation on the top 3 destinations for summer 2020, that does not
involve a flight, based on the following criteria:

Potential datasets:

- NOAA
- Weatherbase
 - Average monthly temperature above 22 degrees Celsius
 - Average monthly rainfall less than 60mm
 - · Less than 4hrs from London
- 2. The CTO of an on-demand delivery startup based in Greater London is looking to open the company's first operational facility. The company uses a fleet of electric scooters to provide a "last-mile" delivery service to Fortune 500 companies in the city (e.g. important packages, laundry service, the CEO's sushi order). The executive sponsor has asked you to make a recommendation about where to open the first location, based on the following criteria:

Potential datasets:

- Open Postcode Geo
- Commercial and Industrial Property Stats
 - Lowest rent
 - · Within 20 minutes of the City and Canary Wharf
 - · Low emission zone
- 3. The CEO of the Department of Health is putting together a spending recommendation for 2020. The department is particularly concerned about rising levels of obesity, access to nutrition and air quality across Greater London. You have been asked to put together a report analysing the top health issues per borough, based on the following criteria:

Potential datasets:

- London Datastore
 - Which boroughs should receive more investment?
 - · How would you prioritise spending across the city?
 - · What health issues should the Dept. of Health focus on?

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