SECTION 1: COURSE OVERVIEW / 19 mins, 5 parts

- 4/5 Why Python?
 - -> Outline
 - -> Python overview
 - -> what Python is and its history
 - -> why use Python
 - -> base Python vs additional libraries

○ -> History

- -> Guido van Rossum created it
- -> Python 3 was released in 2018
- -> it was designed as an easy to use language with readability

-> Why chose Python

- -> the syntax is easy to read (modular compared to use of braces and brackets this language uses a lot of white space with extra brackets)
- -> it optimised for users -> it saves developer time, rather than computer processing time

-> What you do do with Python

- -> base Python -> "batteries included" base version of Python
- -> in comparison to modules you can import which add extra functionality to the code
 - · -> outside libraries / frameworks
 - -> the idea is to take you from a complete beginner to understanding base Python well

-> example tasks

- -> generic example tasks
 - -> searching for files, editing them
 - -> scraping information from a website
 - -> reading and editing excel files
 - -> working with PDFs
 - -> automating emails and test messages
 - -> filling out forms

· -> in data / ML

- -> analyse large data files (scientific computing)
- -> visualisations -> seaborn, matplotlib
- -> performing ML tasks
- -> predictive algorithms

· -> web development

- -> Django / Flask for backend web development
- -> you can create dashboards