

Agile Data Science

Master in Foundations in Data Science

FALL 2021

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Basic Information



DATES:

- Thursday: 14h-16h
- Friday: 14h-16h



LOCATION:

T1 classroom



MAIL:

• epuertas@ub.edu

Prerequisites

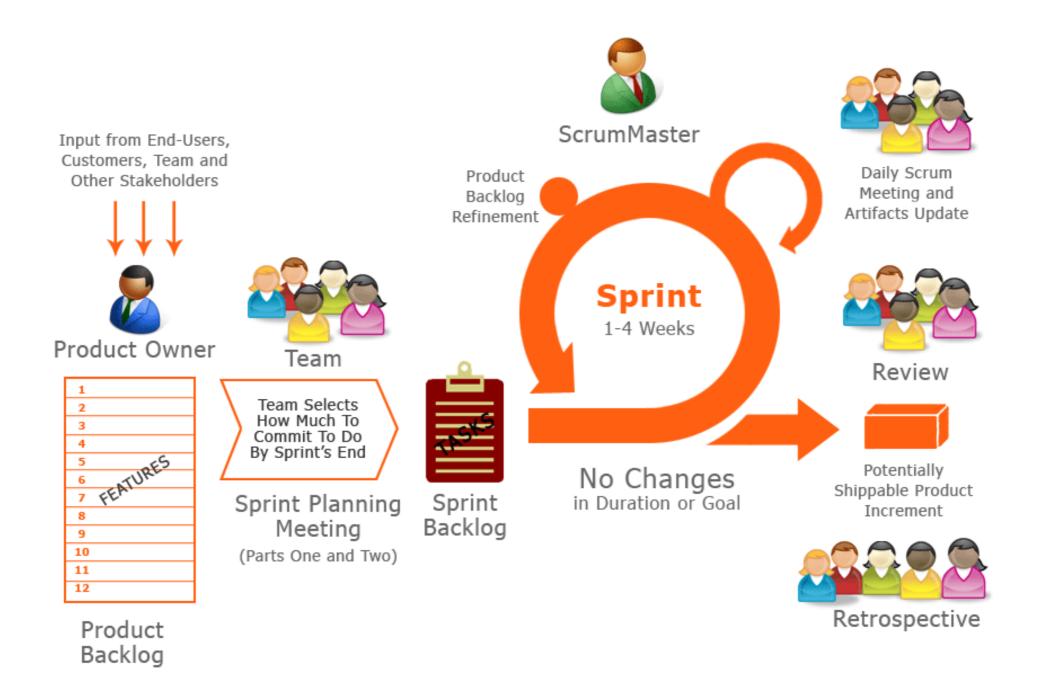
programming experience in PYTHON.





1. Practice agile methodologies for Data Science applications.

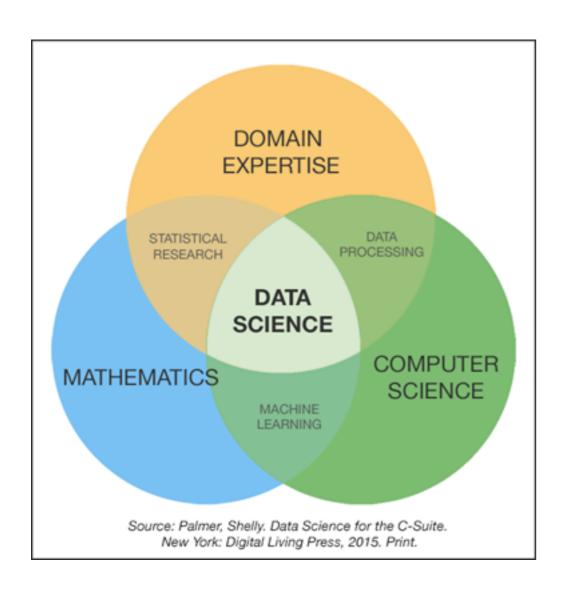
Agile Methodologies





- 1. Practice agile methodologies for Data Science applications.
- 2. Learn about what it's like to be in a Data Science team.

Data Science Team

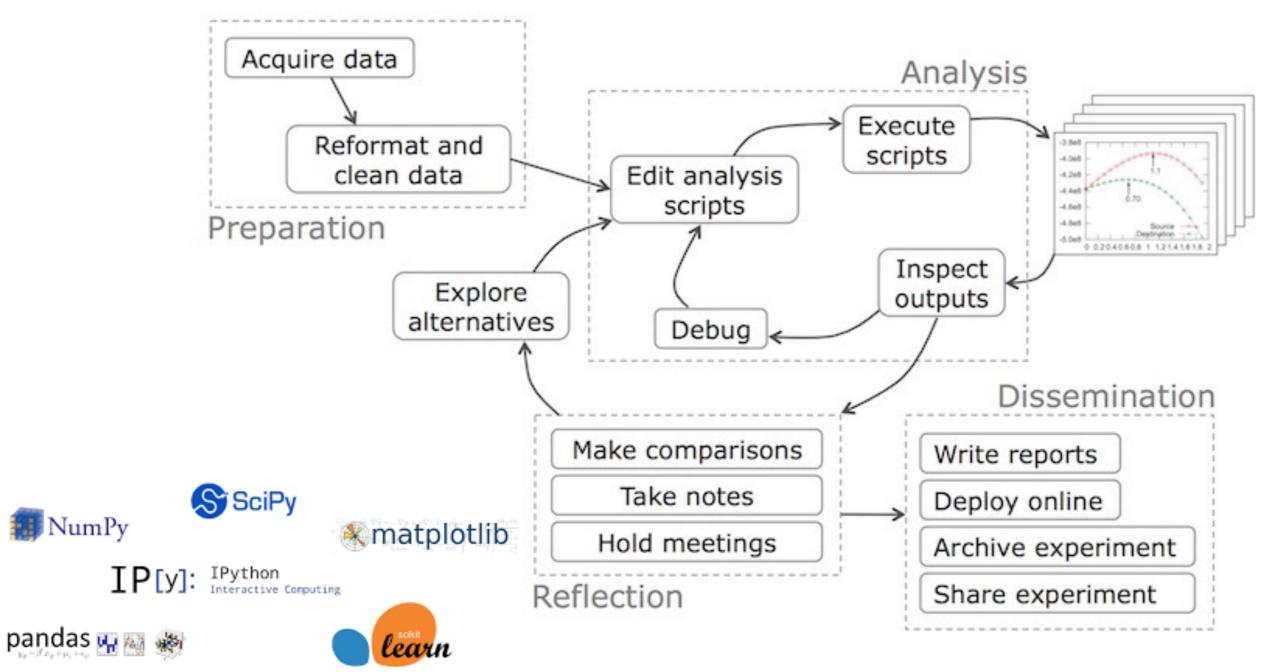






- 1. Practice agile methodologies for Data Science applications.
- 2. Learn about what it's like to be in a Data Science team.
- 3. Learn about data science workflow

Data Science workflow



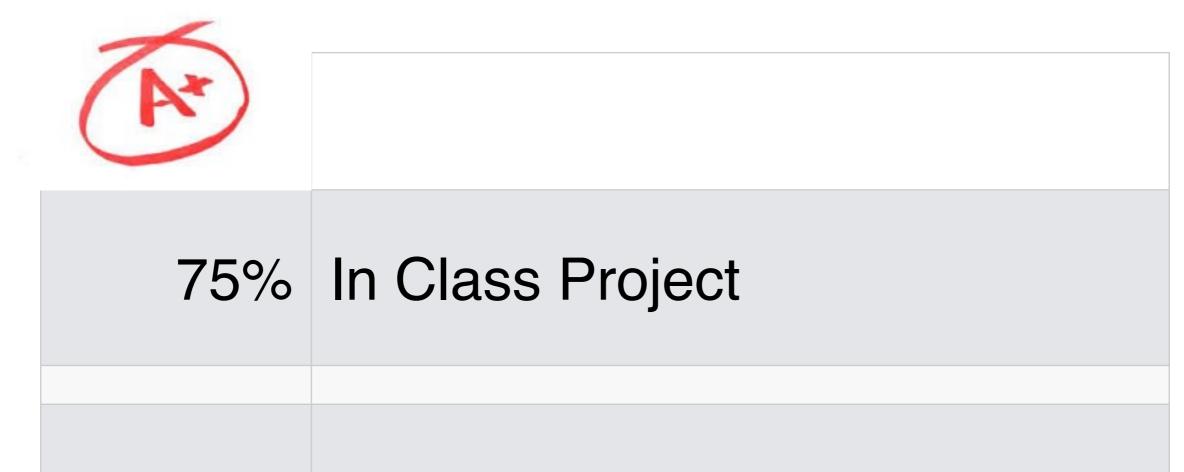


- 1. Learn about agile methodologies for software developing.
- 2. Learn about what it's like to be a data scientist.
- 3. Learn about data science workflow

Course Topics

Topic
Introduction to Data Science
Agile Software Development Methodologies
Data Science Workflow: Setting up Data Science Infrastructure
Data Science Workflow: Data Preparation
Data Science Workflow: Analysis
Data Science Workflow: Dissemination and Deployment

Course Grading



25% Exercises

Bibliography

- Clean Code: A Handbook of Agile Software Craftsmanship.
 (Prentice Hall) Robert C. Martin
- 2. Agile Data Science: Building Data Analytics Applications with Hadoop. (O'Reilly) Russell Jurney
- 3. Data Science from Scratch: First principles with Python. (O'Reilly) *Joel Grus*
- 4. Python for Data Analysis: Data Wrangling with Pandas, NumPy, and IPython. (O'Reilly) Wes McKinney
- 5. Doing Data Science: Straight Talk from the Frontline. (O'Reilly) Cathy O'Neil, Rachel Schutt
- 6. Python Data Science Handbook: Tools and Techniques for Developers. (O'Reilly) *Jake VanderPlas*

Web Site

https://eloipuertas.github.io/ADS/