

Project Description

You have been a data scientist since the day you began this program. You may not have recognized it, but it's been there the whole time. In this course, you're not only going to recognize it, but show us what you can do.

You will be performing 3 analyses and presentations of data that is useful to you, or interesting enough to examine. Here are the parameters of each of the deliverables

All due dates are Sunday evening unless otherwise specified.

- 11 point font.
- 11 point headings.
- APA-Style.
- LaTeX or Word or Whatever production space allow.
 - final deliverable must be a PDF.
- Powerpoint presentation due before presentation in PDF format.
- 15 minute presentation, 15 minute Q&A period.

Each of these projects are domain agnostic, data agnostic, and method agnostic. This means that you can pull data from any domain, analyze it using whatever method you deem worthy, and use data that already exists in any form.

What you will be doing with your data, method, and domain is providing a useful analysis to those who work in that domain. You will have to define it, show it, and visualize it in a useful, jargon-free story.

The schedule for these projects is as follows:

Weeks 1 – 4 – The First Project (50 points per week)

- Week 1/Milestone 1 – Proposal and Data Selection
 - Find your Data Source.
 - Write your research questions.
 - Propose your project.
- Week 2/Milestone 2 – Project Check-In
 - Give us a writeup of your progress.
 - 500 words.
- Week 3/Milestone 3 – Project Draft
 - 5-8 Pages, 4000-8000 words.
 - APA References.
 - Up to 3 Illustrations @ ¼ page each.
 - Up to 1 Illustration @ ½ page.
 - 1 Appendix
- Week 4/Milestone 4 – Presentation
 - The student will schedule the presentation.
 - The student will present their findings via Blackboard Collaborate/Ultra.
 - At a minimum the course instructor should be included, but student is welcome to invite more.

Weeks 5 – 8 – The Second Project (50 points per week)

- Week 5/Milestone 1 – Proposal and Data Selection
 - Find your Data Source.
 - Write your research questions.
 - Propose your project.
- Week 6/Milestone 2 – Project Check-In
 - Give us a writeup of your progress.
 - 500 words.
- Week 7/Milestone 3 – Project Draft
 - 5-8 Pages, 4000-8000 words.
 - APA References.
 - Up to 3 Illustrations @ ¼ page each.
 - Up to 1 Illustration @ ½ page.
 - 1 Appendix
- Week 8/Milestone 4 – Presentation
 - The student will schedule the presentation.
 - The student will present their findings via Blackboard Collaborate/Ultra.
 - At a minimum the course instructor should be included, but student is welcome to invite more.

Weeks 9 – 12 – The Third Project (50 points per week)

- Week 9/Milestone 1 – Proposal and Data Selection
 - Find your Data Source.
 - Write your research questions.
 - Propose your project.
- Week 10/Milestone 2 – Project Check-In
 - Give us a writeup of your progress.
 - 500 words.
- Week 11/Milestone 3 – Project Draft
 - 5-8 Pages, 4000-8000 words.
 - APA References.
 - Up to 3 Illustrations @ ¼ page each.
 - Up to 1 Illustration @ ½ page.
 - 1 Appendix
- Week 12/Milestone 4 – Presentation
 - The student will schedule the presentation.
 - The student will present their findings via Blackboard Collaborate/Ultra.
 - At a minimum the course instructor should be included, but student is welcome to invite more.

Grading Criteria

Each milestone will be evaluated based on the following, (See rubrics for full details):

Milestone 1: Proposal and Data Selection

- Data source quality
- Research question quality
- Proposal grammar
- Proposal Organization
- On time

Milestone 2: Project Check-In

- Progress
- Check-In Quality
- On time

Milestone 3: Project Draft

- Reference section
- Analysis quality
- Report quality
- Storytelling and Jargon
- On time

Milestone 4: Presentation

- Presentation scheduled
- Presentation quality
- Final report
- Questions and responses
- On time