Capstone Project Weekly Deliverables

Week 1-2: Individual Project Ideation

- Scope a custom ML project, from the problem to the ML tool stack, on your own

Week 3: Peer Review & Teaming

- Peer review at least 3 of your individual peer's projects
- Work through teaming and project selection exercise (either industry capstone or custom project)

Week 4: Project Proposal

- Student Project Template
- Project Proposal Presentation (5mins/team presentation, to be presented in Week 5)

Week 5: Initial Data Exploration

- Perform EDA in notebook
- Document data lineage in markdown (e.g., simple manual data version control)

Week 6: Establish ML Modeling Baseline

- Establish baseline model through AutoML or a pre-trained model
- Document performance report in markdown

Week 7: Initial GitHub Documentation

- Create initial project GitHub repo & README.md

Week 8: Data & Model Iteration

- Iterate on Data + Model combination
- Document performance, interpretation, and learnings in markdown

Week 9-10: Project Pitches I (No Demo Required)

- 10-min Project Presentations (templates provided), including:
  - Elevator pitch (1-2 sentences)
  - Beginning-Middle-End
  - Incorporate feedback from Instructors and fellow students

Week 11: GitHub Documentation Revisions

- Document limitations of your model / data / ML pipeline
- Restructure GitHub into scripts / modules / submodules

Week 12: ML Deployment Demonstration

- Deploy a working model locally
- Deploy a functional prototype to AWS

Week 13: Code Freeze! Infrastructure Diagramming / Model Explainability

- Code Freeze!
- Submit a diagram of the ML pipeline infrastructure stack that you've built, and include aspects that you plan to build in the next two weeks
- Submit output of your model explainability strategy

Week 14: 1-Page Narrative & Final GitHub Repo Revision

- Write 1-page narrative about what you've built
  - Clearly articulate your elevator pitch and tell the story with a beginning-middle-end
- Ensure that instructors can easily follow your README.md instructions to deploy your demo locally and in the cloud.

Week 15: Project Final Presentation Rehearsals

- 10-min Project Presentations (templates provided), including:
  - Elevator pitch (1-2 sentences)
  - Beginning-Middle-End
  - ML Project Live Demo
  - Incorporate feedback from Instructors and fellow students

Week 16: Storytelling Workshop & Demo Day Presentation

- Deployed Demo
- 10-min Presentation
- GitHub Repo (description in README + code)