# Week 1

### Team Member Names:

Team Name: Analytically Predictable

* Scott Breitbach
* Pushkar Chougule
* Rachel Nelson

### Method of Communication:

We have set up a Microsoft Teams chat with the three of us to communicate, plan and share files.

We will also be using our emails as another method of communication.

Since three of us are in different time zones, we will coordinate and schedule Teams calls as necessary throughout the duration of the course.

### Team Project Attack Plan:

Communicate with each other via teams / emails. Keep shared files in our Teams chat.

* Week 1: Milestone 1 Due (Team Information/Communication Plan)
  + Start dedicated teams chat with team - Internal Teams channel created
  + Start talking about possible topics (finance, healthcare, weather, or other areas of interest) and suitable data sources (kaggle, google cloud public datasets, Data.gov, National Center for Environment Information etc.)
* Week 2: Milestone 2 Due (Data Selection and Project Proposal) & Peer Review
  + Finalize the project topic
  + Finalize data selection and share data on Teams
  + Draft project proposal
  + Determine the potential outcome / target variables from the project
  + Discuss about the potential challenges / risks
* Week 3 & 4: Project prep work and Peer Review
  + Start discussions around approach for preliminary analysis and set up time to discuss as a team on findings/next steps
  + Divide the work amongst group members
  + Decide on the approach for the usage of programming languages R and Python
* Week 5: Milestone 3 Due (Preliminary Analysis)
  + Deliver preliminary analysis which should be a combination of R and Python scripts.
  + Prepare suitable visualizations
  + Summarize the data characteristics and structures
  + Data clean up processing using python
* Week 6: Peer Review
  + Start project presentation draft in PowerPoint
* Week 7, 8 and 9: Milestone 4 Due (Project Presentation & Status) & Peer Review
  + Prepare the draft version of the predictive models in R
  + Coordinate on the code changes / seek each other’s help and feedback
  + Evaluate the model performance and identify improvements needed
  + Seek feedback from the other students in the class / exchange views with each other
  + Submit milestone 4 project documentation and status
* Week 10: Peer Review
  + Continue to refine draft documents and make any changes on shared documentation
* Week 11 and 12: Milestone 5 Due (Final project paper and presentation) & Peer Review (Due Saturday!)
  + Finalize / fine tune the predictive model, considering the feedback from previous weeks
  + Document the results and prepare the presentation
  + Coordinate for the preparation of final project presentation
  + Submit final paperwork