**Project goal: Tell a story using a dataset!**

**Outline Day1:**

**Phase 1**

Group members:

Tyee Montoya

Valerie Chau

Heather Hutchinson

Taylor Dacpano

Ludivina LeMay

Communication prosses:

GitHub, slack, zoom

Meeting times: Class time (M-W)

Other times:

Heather -Tuesday after 3pm, M/W after 1pm

Taylor- Tuesday, Thursday, Friday before 2pm (M/W all day)

Valerie- W 1:30 pm

Tyee- MW all day

Ludi- flexible

To do list/due 4/11

Potential project: CRISPR

Ludi – summary on paper

Heather, Taylor, Valerie, Tyee – please read the paper.

All- come up with possible questions.

**Outline Day2:**

**Project Topic-** Climate change

**What:**

Using the country Guam as an example, we will look at the past climate data and future data projections based on precipitation and more. We can then predict how it would affect the country. Also, make suggestions on how they can cope with the changing climate.

**How:**

We will gather datasets from National Centers for Environmental Information

**Work to be done:**

Selecting a model

Checklist:

-download data to get enough noise to signal ratio

-For time series data Jun recommends:

Using the first 10 years (2000 to 2010) and compare it to 2011.

**Phase 2**

Data needs to be:

Sourced – publications, git hub, online search.

Database – data can be housed in postgres, mongo or SQLite.

Prepared – Python to clean, prepare, and explore the data.

Visuals – Java Script or Tableau

Apply machine learning to tell our data story:

Libraries – TensorFlow and scikit-learn.

Git hub with branches:

Contact person: Valerie Chau

Roles (Tentative):

Valerie – collecting dataset.

Git hub - Ludi

Database – postgres

Data cleaning / model : All

Visuals – Java Script or Tableau (Ludi)

Deliverables by Apr 12

* A detailed README.md file (20 points)
* At least four commits per team member (20 points)
* A database that stores at least two tables (or collections) for the project (20 points)

**Phase 3**

Finalize project.

Practice presentation

Team Summary