**Main Leader** : Lily

**Second Leader**: Sumana

**Syllabus Leader**: Ivy

**Volunteer:**  Logan

**Backup Leaders** Anju, Michelle

**Host:** We need to start looking for hosts.. - Lily and Anju

How many people for workshop?? - <60

**Helping with Syllabus.**

Week 1:

Week 2:

**Dates**

Potential Months July/August ??

8 weeks.

**Course Plan Suggestions and due dates**

Week 1: Numpy/Pandas - Logan : Due Date: June 25th, 2019

Week 2: Descriptive Statistics - Anju: Due Date - July 2nd, 2019

Week 3: Matplotlib/Seaborn - Anju: Due Date - July 9th, 2019

Week 4: Probability/Linear Algebra - Lily: Due Date: July 15th, 2019

Week 5: Inferential Statistics - Ivy - Due Date: July 23rd, 2019

Week 6: Project(EDA) - Ivy/Lily - We pick the dataset and create a notebook with guidelines on how to complete/partial code

Week 7: Interview Questions - Technical/Coding - Create a notebook with common interview questions and partial code

Week 8: Mock Interview with Flashcards/Pairs - We will create flashcards from a pool of common interview questions and assign pairs among attendees to interview each other.

**Syllabus**

Week 1:

* Jupyter Notebook via Anaconda installation, Python 3 for consistency, Google Collab

Week 2:

* Statistics review (random variables → discrete distribution (Binomial, Bernoulli, Geometric, Poisson) versus continuous distribution (Gaussian)

Week 3:

* Statistics review (sampling distribution of sample proportions, sampling distribution of sample means)
* Simulation with python

Week 4:

* Statistics review (z-score, t-test, pair test, Chi-test, confidence interval)
* Hypothesis testing using frequentist versus bootstrap hypothesis testing

Week 5: Numpy

Week 6: Pandas

Week 7: Statsmodels

Week 8: Project

**Resources:**

Intro to Data Analysis (6 week Udacity course):<https://www.udacity.com/course/intro-to-data-analysis--ud170>

Python for Data Science(10 week EdX course):

<https://www.edx.org/course/python-for-data-science-2>

Course Title

Python for Data Analysis

Details

Interactive 8-week python training with a focus on statistics and data analysis.

Check-In Process:

1. Scan Check-in QR Code

2. Take Diagnostic Quiz, get score

3. Give score to volunteers for table assignment

Agenda:

6:00- 6:30 pm - Check in with Diagnostic Quiz. Food/Networking.

6:30 - 8:30 pm – Interactive Concepts and Coding session

Course Plan:

* Week 1 (7/16): Jupyter Notebook via Anaconda installation, Python 3 for consistency
* Week 2 (7/23): Numpy
* Week 3 (7/30): Pandas
* Week 4 (8/6): Statsmodels
* Week 5 (8/13): Statistics review (sampling distribution of sample proportions, sampling distribution of sample means), Simulation with python
* Week 6 (8/20): Statistics review (z-score, t-test, pair test, Chi-test, confidence interval), Hypothesis testing using frequentist versus bootstrap hypothesis testing
* Week 7 (8/27): Statistics review (random variables → discrete distribution (Binomial, Bernoulli, Geometric, Poisson) versus continuous distribution (Gaussian)
* Week 8 (9/3): Project

Sponsor: TBD

Additional Notes:

RSVP opens on Friday at noon, 12 pm, three days before the event and closes on the day of the event at 3 pm.

Code of Conduct (<https://github.com/WomenWhoCode/guidelines-resources/blob/master/code_of_conduct.md>)

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Notes - Meeting 5/22/2019

Attendees : Anju, Michelle, Logan, Lily

Host : Michelle prepared proposal, Anju syncing with Bindu regarding host,

Who is teaching : Maybe 2 instructors - Check with Ivy regarding how much she can commit

How about Matplotlib and Seaborn?

Do we need 4 weeks for statistics review

Course Work

* Week 1 (7/16): Jupyter Notebook via Anaconda installation, Python 3 for consistency

Datasets

Google Collab

* Week 2 (7/23): Numpy - Anju/Logan
* Week 3 (7/30): Pandas - Logan
* Week 4 (8/6): Statsmodels - Anju
* Week 5 (8/13): Statistics review (sampling distribution of sample proportions, sampling distribution of sample means), Simulation with python
* Week 6 (8/20): Statistics review (z-score, t-test, pair test, Chi-test, confidence interval), Hypothesis testing using frequentist versus bootstrap hypothesis testing
* Week 7 (8/27): Statistics review (random variables → discrete distribution (Binomial, Bernoulli, Geometric, Poisson) versus continuous distribution (Gaussian)
* Week 8 (9/3): Project

Lily and Ivy - Split the rest of the weeks

Project - a pre prepared dataset with notebook/without code

Course Plan Suggestions

Week 1: Numpy/Pandas - Logan

Week 2: Descriptive Statistics - Anju

Week 3: Matplotlib/Seaborn - Anju

Week 4: Probability/Linear Algebra - Lily

Week 5: Inferential Statistics - Ivy

Week 6: Project(EDA) - Ivy/Lily - We pick the dataset and create a notebook with guidelines on how to complete/partial code

Week 7: Interview Questions - Technical/Coding - Create a notebook with common interview questions and partial code

Week 8: Mock Interview with Flashcards/Pairs - We will create flashcards from a pool of common interview questions and assign pairs among attendees to interview each other.

Actions

Discuss new courseplan with Sumana and Ivy(Lily)

Host - Anju/Michelle

Interview Questions - Logan

Setup meeting for next week - Lily

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Meeting Notes - 5/29/2019

Attendees : Anju, Logan, Lily

Next Meetings:

Wednesday June 5, 2019 8 pm PST

Tuesday June 25, 2019 8 pm PST

Tuesday July 2, 2019 8 pm PST

Tuesday July 9, 2019 8 pm PST

Anju and Bindu are looking for host. We might have to reduce to 30 for class size to get a host. Google is interested.

Meetup - sign ups to be open 3 days ahead of class - email messages to be sent to women who code group on the day sign up opens.

Notebooks should be ready 3 weeks ahead of course date. 1 week for peer review after that, 1 week for corrections, notebook to be posted on github 1 week ahead of class

Notebook due dates given below

Schedule for notebook creation :

Week 1: Numpy/Pandas - Logan - June 25

Week 2: Descriptive Statistics - Anju - July 2

Week 3: Matplotlib/Seaborn - Anju - July 9

Week 4: Probability/Linear Algebra - Lily - July 16

Week 5: Inferential Statistics - Ivy - July 23

Week 6: Project(EDA) - Ivy/Lily - We pick the dataset and create a notebook with guidelines on how to complete/partial code - Pick project by July 9, Lily finish notebook by July 16(EDA), Ivy by July 23(Inferential)

Week 7: Interview Questions - Technical/Coding - Create a notebook with common interview questions and partial code - Aug 6

Week 8: Mock Interview with Flashcards/Pairs - We will create flashcards from a pool of common interview questions and assign pairs among attendees to interview each other.- Aug 13

I will be travelling between June 6th and July 1st. Responses might be delayed.