SUMMER ANALYTICS 2020



"Raw ores need some processing before they are finished into fine minerals, so do Data!"

Exploratory Data Analysis or EDA is that important processing step that can drive data to confess some facts we can't comprehend with just a glance.

Summer Analytics aims to deliver a first hand learning experience to essential skills like EDA to its participants. Hence, owing to the immense importance of EDA, we are introducing an extra day in Week 2.

You'll be going through an open and free course on Statistical Reasoning for in-depth experience on EDA and then reviewing a Kaggle notebook that uses the above gained experience to perform EDA on the House Prices dataset.

Task 1 : Register and complete this course till UNIT 2: Exploratory Data Analysis.

(Check registration steps below)

Task 2: Study this tutorial for getting an intro to **Seaborn - A data visualization library** (Seaborn is used in the below attached Kaggle Notebook)

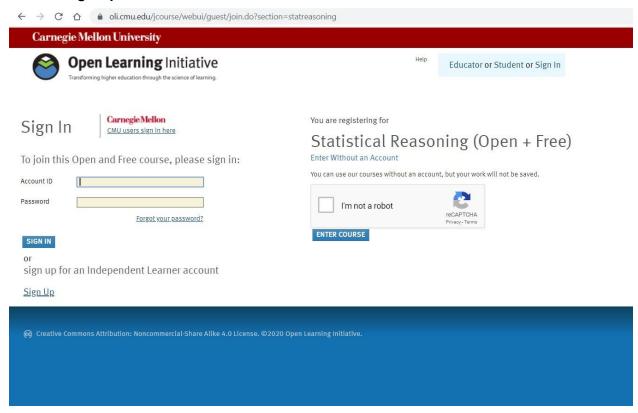
Task 3: Study the attached Kaggle Notebook here

Registration Steps for Task 1:

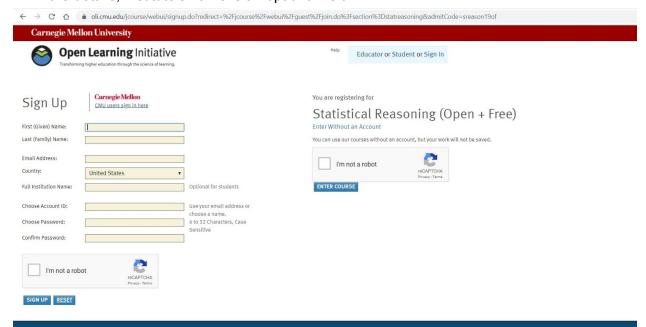
Visit this link - https://oli.cmu.edu/courses/statistical-reasoning-copy/ and click on ENTER OPEN & FREE COURSE button.



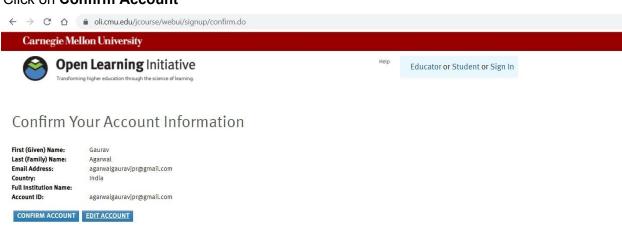
• Click on **Sign Up** link



Fill in the details, Institute's name is an optional field.



Click on Confirm Account



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• Choose I Agree and click Submit



I agree to participate in the on-line course research conducted by Norman Bier and his colleagues under the supervision of Norman Bier. I understand that the proposed research has been reviewed by the Unix understand that my participation is completely voluntary, and I will not receive course credit or any other compensation from Carnegie Mellon for my participation in this research. I understand that I have the r any time I wish without penalty by selecting "opt out from research" on "my OLI home" page.

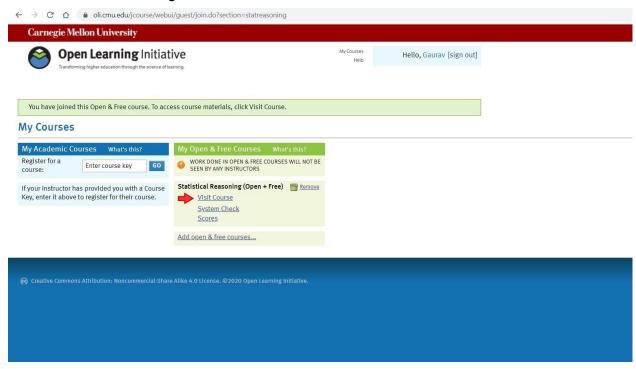
Purpose of the Study: I know that the researchers are studying how students learn in an online educational environment and that the study is directed at improving the course material, not judging my behavio researchers will produce design recommendations to improve future versions of the courses. I understand that my interactions with the on-line course will be logged in a data file and that these logs and the sc used as data for this study. The only difference between agreeing to participate in the study and not agreeing to participate in the study is that if I agree to participate, my log file will be retained as data for this study.

Privacy: I understand that the following procedure will be used to maintain my anonymity in analysis and publication / presentation of any results. Each participant will be assigned an ID; names will not be log researchers will save the data using this participant ID. Only registered OLI researchers will have access to the logged data for analysis purposes. The servers containing the log files are in locked secure room.

I understand the nature of this Study. I am at least 18 years of age and agree to participate. I can view of copy of this consent form at any time by selecting the "Research Consent Form" link on the "my OLI hom collegues permission to present this work in written and/or oral form for teaching or presentations to advance the knowledge of science and/or academia, without further permission from me provided that my

● I Agree ○ I Disagree SUBMIT

Click on Visit Course to go to the course.



• Complete till UNIT 2: Exploratory Data Analysis

