

NALAIYA THIRAN

WEEK 2 REPORT

Phase 2 Description: Ideation Phase (Literature Survey, Empathize, Defining Problem Statement, Ideation)

2.1 Literature survey on the selected project & Information Gathering

Collected the relevant information on the project use-case, referred the existing solutions, technical papers, research publications, etc.

Paper 1 – Water Quality Prediction

Publisher: International Research Journal Of Engineering and Technology (IRJET)

Reference - <https://www.irjet.net/archives/V7/i5/IRJET-V7I51435.pdf>

Paper 2 – Efficient Water Quality Prediction Using Supervised Machine Learning

Publisher: Umair Ahmed – MDPI

Reference -<https://www.mdpi.com/2073-4441/11/11/2210/pdf>

Paper 3 – WATER QUALITY PREDICTION BASED ON MACHINE LEARNING TECHNIQUES

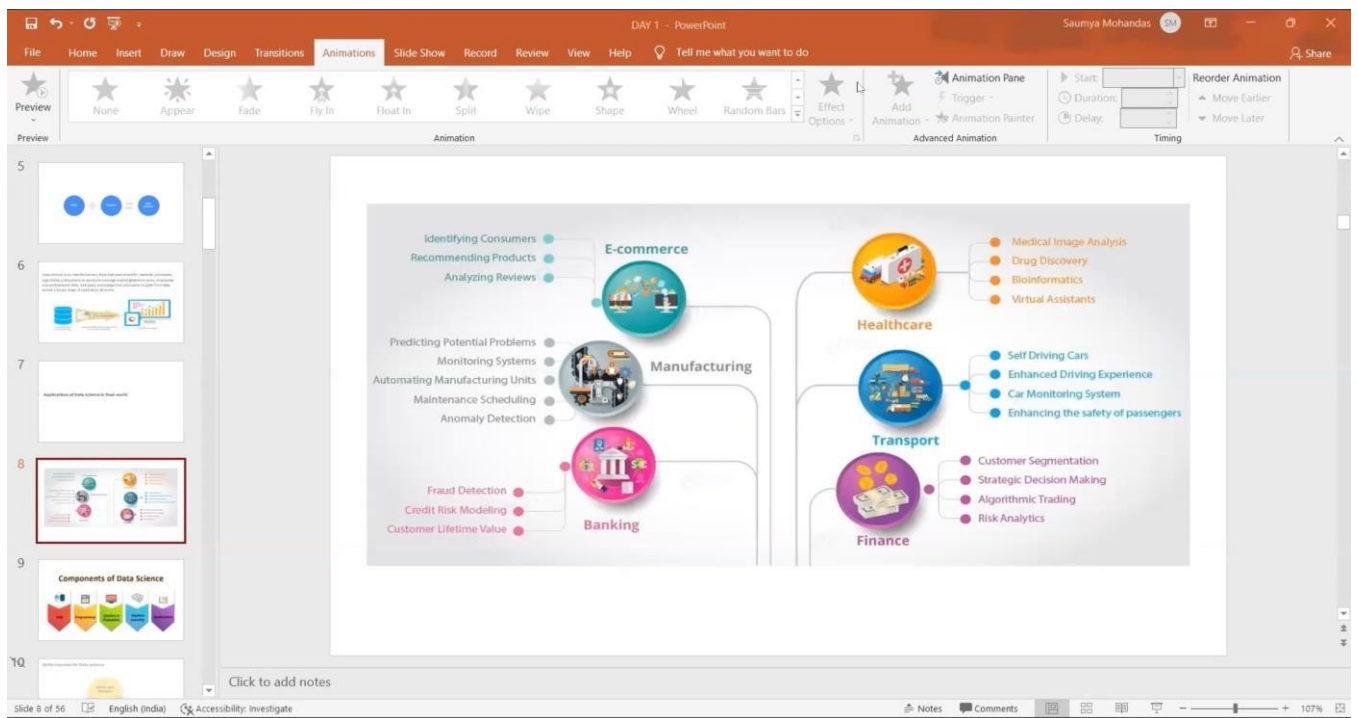
Publisher: Zhao Fu – UNLV Graduate College

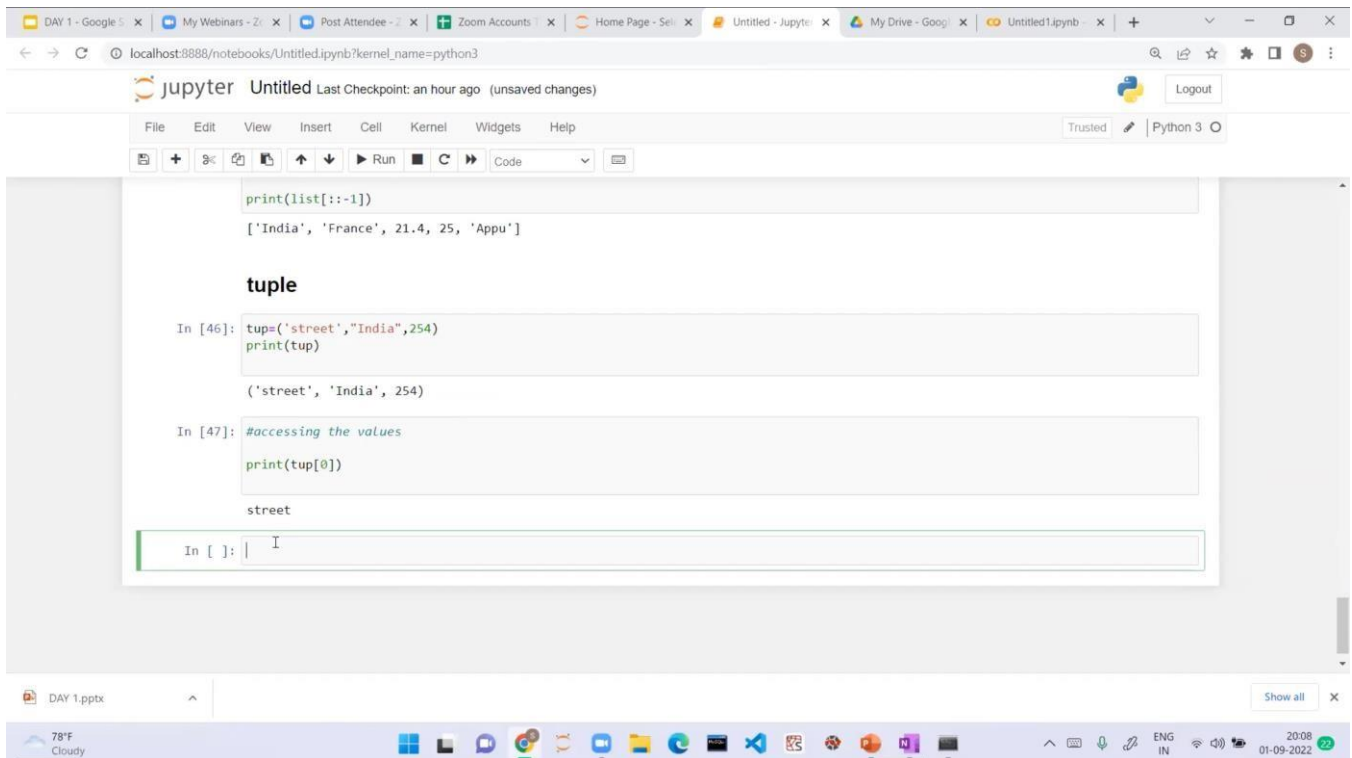
Reference -

<https://digitalscholarship.unlv.edu/cgi/viewcontent.cgi?article=4998&context=thesesdissertations>

2.2 Attended the technology training as per the training calendar

ADS – B3 - 3M5E (Evening Session) - Day 1 (02.09.2022)





Ads-B3-3M5E (Morning Session)-Day-2 (07.09.2022)

Important Methods Pandas Packages

Data Importing	Data Cleaning	Data Statistic
<pre>pd.read_csv() pd.read_table() pd.read_excel() pd.read_sql() pd.read_json() pd.read_html() pd.DataFrame() pd.concat() pd.series() pd.date_range()</pre>	<pre>pd.fillna() pd.dropna() pd.sort_values() pd.apply() pd.groupby() pd.append() pd.join() pd.rename() pd.to_csv() pd.set_index()</pre>	<pre>pd.head() pd.tail() pd.describe() pd.info() pd.mean() pd.median() pd.count() pd.std() pd.max() pd.min()</pre>

24	Pontiac Firebird	19.2	8	400.0	175	3.08	3.845	17.05	0	0	3	2
25	Fiat X1-9	27.3	4	79.0	66	4.08	1.935	18.90	1	1	4	1
26	Porsche 914-2	26.0	4	120.3	91	4.43	2.140	16.70	0	1	5	2
27	Lotus Europa	30.4	4	95.1	113	3.77	1.513	16.90	1	1	5	2
28	Ford Pantera L	15.8	8	351.0	264	4.22	3.170	14.50	0	1	5	4
29	Ferrari Dino	19.7	6	145.0	175	3.62	2.770	15.50	0	1	5	6
30	Maserati Bora	15.0	8	301.0	335	3.54	3.570	14.60	0	1	5	8
31	Volvo 142E	21.4	4	121.0	109	4.11	2.780	18.60	1	1	4	2

In []: # Datsun 710-Fiat 128 hp-am

In []:

In []:

In []:

In []: