

## Project Development Phase

### SPRINT 2

Team ID	PNT2022TMID13713
Project Name	Project – ESTIMATE THE CROP YIELD USING DATA ANALYTICS

#### 1. Cloud db2 connection:

The screenshot shows the IBM Cloud console for the Db2 service. The 'Create' tab is active, displaying options to select a location (Dallas (us-south)) and a pricing plan (Lite). The Lite plan is highlighted, showing 200 MB of data storage, 5 simultaneous connections, and a shared multitenant system. The pricing is listed as 'Free'. A summary panel on the right shows the service name as 'Db2-cc' and the resource group as 'Default'. There is an 'Upgrade' button and an 'Add to estimate' button.

#### 2. Create Db2 access:

The screenshot shows the IBM Cloud console for the Resource list. The 'Db2-bm' resource is listed under the 'Databases' category. The resource is named 'Db2-bm', has a group of 'Default', is located in 'Dallas', and is a 'Db2' product. The status is 'Active'. The resource is listed with a 'Create resource' button and a 'Filter by name or IP address...' search bar.

### 3. Load dataset by using kaggle to upload dataset in dashboard (kaggle) to get API:

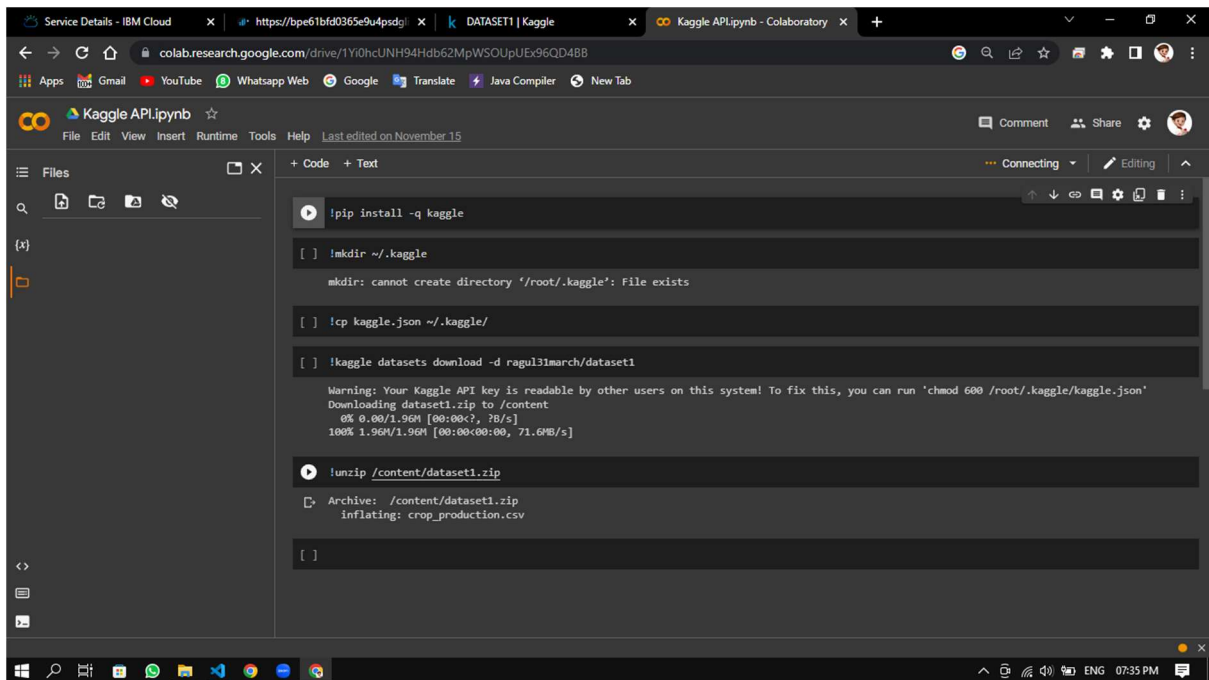
The screenshot shows the Kaggle dataset page for 'crop\_production.csv' (15.32 MB). The page is titled 'DATASET1' and includes tabs for 'Data', 'Code (0)', 'Discussion (0)', and 'Settings'. A 'Download (2 MB)' button is visible. The 'Data Explorer' section shows 'Version 1 (15.32 MB)' and the file 'crop\_production.csv'. The 'About this file' section states 'This file does not have a description yet.' Below this, a table displays data for 'State\_Name', 'District\_Name', '# Crop\_Year', 'Season', and 'Crop'. A bar chart shows the distribution of '# Crop\_Year' from 1997 to 2015. The table includes rows for Uttar Pradesh, Madhya Pradesh, and Other (189842), as well as Andaman and Nicobar Islands.

State_Name	District_Name	# Crop_Year	Season	Crop
Uttar Pradesh	14%	646 unique values	Kharif	39% Rice
Madhya Pradesh	9%		Rabi	27% Maiz
Other (189842)	77%		Other (83153)	34% Oth
Andaman and Nicobar Islands	NICOBARS	2000	Kharif	Arec
Andaman and Nicobar Islands	NICOBARS	2000	Kharif	Oth
Andaman and Nicobar Islands	NICOBARS	2000	Kharif	Rice

### 4. Once upload Get API :

The screenshot shows the same Kaggle dataset page for 'crop\_production.csv'. A dropdown menu is open, showing options: 'New version', 'New notebook', 'Bookmark', 'Copy API command' (highlighted), and 'Delete dataset'. The table and bar chart from the previous screenshot are still visible in the background.

## 5. By google colab to get csv



The screenshot shows a Google Colab notebook interface. The browser tabs at the top include 'Service Details - IBM Cloud', 'https://bpe61bfd0365e9u4psdg...', 'DATASET1 | Kaggle', and 'Kaggle API-py nb - Colaboratory'. The notebook's address bar shows a Google Drive link. The notebook title is 'Kaggle API-py nb' and it was last edited on November 15. The left sidebar shows a file explorer with a folder named '{x}'. The main code area contains the following commands and output:

```
!pip install -q kaggle

[ ] !mkdir ~/.kaggle

mkdir: cannot create directory '/root/.kaggle': File exists

[ ] !cp kaggle.json ~/.kaggle/

[ ] !kaggle datasets download -d ragul31march/dataset1

Warning: Your Kaggle API key is readable by other users on this system! To fix this, you can run 'chmod 600 /root/.kaggle/kaggle.json'
Downloading dataset1.zip to /content
0% 0.00/1.96M [00:00<?, ?B/s]
100% 1.96M/1.96M [00:00<00, 71.6MB/s]

!unzip /content/dataset1.zip

Archive: /content/dataset1.zip
  inflating: crop_production.csv

[ ]
```

The bottom status bar shows system icons, language set to 'ENG', and the time '07:35 PM'.

## 6. Unzip the dataset and upload it in IBM DB2(FINALLY)