

# Indranil Chakraborty

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## SKILLS

### Programming languages:

#### PYTHON 3.9

##### Libraries known:

Numpy, Pandas, Matplotlib, Seaborn, Sklearn, plotly, dash, Folium, Openpyxl, WordCloud, Urllib,  
Requests, PIL, BeautifulSoup, Math, Cmath, Basemap, PyLab, Scipy, Mpl\_toolkits, graphviz, csv,  
pydotplus, Sqlite3, Os, NLTK, Tensorflow, Keras, Pyfetch etc.

#### C, R, MATLAB.

##### PYTHON IDE's known:

Jupyter Notebook (Google Colab notebook, Kaggle notebook), Pycharm, VS-code.

##### SQL Databases known:

Google Bigquery, IBM Db2, MariaDB, MySQL.

##### Data Manipulation and Data Visualization using:

Python Libraries like matplotlib, seaborn, plotly, dash, etc.,

TABLEAU, MS-Excel, Google sheets.

##### Other skills:

Mathematical functions and Statistics using Python and R, Machine learning in Python,

Basics of Natural Language Processing and Deep learning in Python (Tensorflow, Keras, NLTK),

Data structures and algorithms in Python,

Languages (Read and Write): English, Bengali, Hindi

MS-Powerpoint, MS-Word, Google-Docs, Google-Slides, Bitpaper, etc.

## EDUCATION

### Indian Institute of Technology, Kharagpur (IIT Kgp)

JULY 2011 - AUGUST 2017

**Bachelor of Science (Honors) and Master of Science in PHYSICS** CGPA: 7.02

- All india Rank at IIT JEE, 2011: 4023
- State Rank at WBJEE, 2011: 501
- All India Rank at AIEEE, 2011: 2177

### Bodhicarya Senior Secondary School,

**Location: M Ngr Kadampukur 24PGN(N) West Bengal**

**Passed the Senior School Certificate Examination, CBSE ( held in March, 2010)**

Total Score: 83.8%

- English Core(71), Physics(90), Chemistry(95), Mathematics(80)

### Ramakrishna Mission Vidyalaya Narendrapur,

**Location: Kolkata, West Bengal**

**Passed the Secondary Examination, WBBSE ( held in April, 2008)**

Total Score: 86.5%

- English (82), Physical Science (89), Mathematics (94), Computer Applications (94)

## CERTIFICATIONS

Course title: **Data Science with Python by IBM Skills Network (Coursera.org)**

JUNE 2022 - AUGUST 2022

- <https://www.coursera.org/account/accomplishments/professional-cert/9TSZY9A977CR>

Course title: **Introduction to SQL and Advanced SQL by Kaggle**

AUGUST 2022- SEPTEMBER 2022

- <https://www.kaggle.com/learn/certification/indranilch2014/intro-to-sql>

## PROJECTS

1. **Webscrapping Falcon 9 launch records with BeautifulSoup and converting the parsed HTML table into a Pandas data frame**

Link:<https://github.com/indranilch2014/Capstone-Project-coursera-week1/blob/main/jupyter-labs-web scraping11.ipynb>

2. **Performing some Exploratory Data Analysis (EDA) to find some patterns in the SpaceX Launch data**

Link:<https://github.com/indranilch2014/Capstone-Project-coursera-week1/blob/main/labs-jupyter-space x-Data%20wrangling11.ipynb>

3. **Using Folium to find some geographical patterns about the launch sites,**

Link:[https://github.com/indranilch2014/Capstone-project-SpaceX/blob/main/lab\\_jupyter\\_launch\\_site\\_location11.ipynb](https://github.com/indranilch2014/Capstone-project-SpaceX/blob/main/lab_jupyter_launch_site_location11.ipynb)

4. **Loading the SpaceX dataset into the corresponding table in an IBM Db2 database and executing SQL queries on the stored dataset using sqlite3 and establishing a connection to the database.**

Link:[https://github.com/indranilch2014/Capstone-project-SpaceX/blob/main/jupyter-labs-eda-sql-coursera\\_sqlite11.ipynb](https://github.com/indranilch2014/Capstone-project-SpaceX/blob/main/jupyter-labs-eda-sql-coursera_sqlite11.ipynb)

5. **Building a interactive dashboard using Plotly and Dash, TABLEAU and charts, plots , wordClouds , Waffle charts using Plotly, Seaborn, Matplotlib**

Link:[https://github.com/indranilch2014/Capstone-project-SpaceX/blob/main/plotly\\_dash.py](https://github.com/indranilch2014/Capstone-project-SpaceX/blob/main/plotly_dash.py)  
Link: [https://public.tableau.com/app/profile/indranil.chakraborty5263/viz/titanic\\_train\\_viz1/Dashboard1](https://public.tableau.com/app/profile/indranil.chakraborty5263/viz/titanic_train_viz1/Dashboard1)

Link: [https://github.com/indranilch2014/testrepo2/blob/main/4.3\\_Plotly\\_Basics.ipynb](https://github.com/indranilch2014/testrepo2/blob/main/4.3_Plotly_Basics.ipynb)

Link:[https://github.com/indranilch2014/More\\_projects1/blob/main/DV0101EN\\_Exercise\\_Waffle\\_Charts\\_Word\\_Clouds\\_and\\_Regression\\_Plots\\_\(1\).ipynb](https://github.com/indranilch2014/More_projects1/blob/main/DV0101EN_Exercise_Waffle_Charts_Word_Clouds_and_Regression_Plots_(1).ipynb)

6. **Machine learning models and finding the best Hyperparameter.**

Link: <https://github.com/indranilch2014/testrepo2/blob/main/Machine-learning-prediction.ipynb>

Link: <https://github.com/indranilch2014/testrepo2/blob/main/ML0101EN-Proj-Loan-py-v11.ipynb>

7. **Using Os and google.cloud libraries in Python to establish a connection to Google bigquery using API key and using this API client object to run SQL queries.**

Link: [https://github.com/indranilch2014/More\\_projects1/blob/main/bigquery\\_connect\\_1.ipynb](https://github.com/indranilch2014/More_projects1/blob/main/bigquery_connect_1.ipynb)

## GITHUB LINKs for more Projects:

- [https://github.com/indranilch2014/More\\_projects1](https://github.com/indranilch2014/More_projects1)
- <https://github.com/indranilch2014>