

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 WB JEE, 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: **SQL , Machine Learning and other courses in Kaggle.com**

AUGUST 2022- SEPTEMBER 2022

- https://github.com/indranilch2014/Kaggle_certificates_images_and_links/tree/main/kaggle_certificates_image_files
- <https://www.kaggle.com/indranilch2014>

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-webscrapping11.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-spacex-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

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

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

Link: 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

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

GITHUB LINKs for more Projects:

- https://github.com/indranilch2014/More_projects1
- <https://github.com/indranilch2014>