Gaurav Aggarwal

Integrated M.Tech – Applied Geology - IIT, Dhanbad

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PROJECTS

Machine Learning in Python - Online Course Project

JULY 2021

- Gained understanding of supervised learning methods like Linear Regression, Logistic Regression & Random Forests.

- Comprehended various evaluation and model selection methods such as Confusion Matrices, Precision-Recall, ROC to optimize the performance of machine learning models.

IBM Data Science Capstone Project(By Coursera) - Battle of Neighbourhoods

JULY 2021

A machine learning data science project that worked on finding the best location and best kinds of restaurants that can be opened in the city of Mumbai. The project uses Foursquare API alongwith python modules such as folium, and geocoder to visualise the machine learning algorithm of k-means clustering.

OTHER MINOR PROJECT:

House Price prediction with advanced regression techniques such as XGBoost, Gradient Boosting, random searchCV etc. on Kaggle.

TRAINING

Geological terrain mapping training – Jharia Coalfield, Jharkhand

December 2019

- Learned basic techniques of fieldwork and terrain mapping.
- Examined the characteristics of different sedimentary processes involved in the formation of the area and thus presented its comprehensive geological report.

EDUCATION

Indian Institute of Technology (ISM), Dhanbad — Integrated Master of Technology in Applied Geology

JULY 2018 - MAY 2023 |**CGPA – 7.93**

Central Board of Secondary School

12th - APRIL 2017 - APRIL 2018 - **84.4%**
10th - APRIL 2015 - APRIL 2016 - **8.6/10**

SKILLS

- **Programming :** Python, C++, MATLAB
- **Libraries:** Pytorch, Tensorflow/ Keras, Scikit-Learn, Numpy, Pandas, Matplotlib
- **MS Office:** MS Excel, MS Powerpoint, MS Word
- Successfully completed the Machine Learning course on Coursera.
- **Others:** QGIS, GRASS

ACHIEVEMENTS

- Participant in Inter IIT Cultural Meet, 2019
- Runner up in Flash Race, Concetto'18, the Technical Fest of IIT (ISM) Dhanbad
- Successfully qualified for the JEE Advance examination 2018 by being in the top 99.4 percentile.

POSITIONS OF RESPONSIBILITY

- Coordinator of Artfreaks, the Art club of IIT (ISM) Dhanbad
- Coordinator of Art Exhibition, IIT (ISM) Dhanbad
- Organizer in Concetto'19, the Technical Fest of IIT (ISM) Dhanbad

EXTRACURRICULARS

- Active member of American Association of Petrology Geologists, IIT (ISM) Dhanbad
- Active member of Robotics, the Technical club of IIT (ISM) Dhanbad
- Volunteer and member of the NCC, IIT (ISM) Dhanbad