Sugam Mehta

sugammehta0301@gmail.com | +91-9780619799 | Jalandhar

EDUCATION

NIT JALANDHAR
B.Tech
Instrumentation and Control
2019-2023 | Punjab
CGPA : 8.19

NIT JALANDHAR
Minor Degree
Computer Science and Tech.
2020-2023 | Punjab
CGPA : 9.00

LINKS

Github: sugam0301
LinkedIn: sugammehta
Leetcode : sm0301
GeeksforGeeks: sugam0301

ACHIEVEMENTS

- 450+ problems solved on Leetcode.
- 600+ questions solved on GFG
- Among **top 400** global rank and **Top 10** in College on GFG.

SKILLS

LANGUAGES
C/C++, Python
TECHNOLOGIES
Proficient: Machine Learning and Deep Learning
Basics: NLP, MATLAB
Libraries: Numpy, Pandas, Sklearn, Matplotlib, Plotly, Keras, Pytorch, BeautifulSoup
Tools: Git, MySQL
Familiar : HTML, CSS, MLOps tools - MLFlow, DVC, Docker

COURSEWORK

Data Structure and Algorithms
Operating System
Object Oriented Prog. in C++
Database Management System

COURSES

1. Full Stack Data Science(**iNeuron**)
2. DSA (**GFG**)

EXPERIENCE

INDIAN INSTITUTE OF REMOTE SENSING(IIRS)
Machine Learning Engineer Intern
May 2022 - Present | Remote

- Implemented **Super Resolution Generative Adversarial Networks (SRGAN)** model using **SRResNet** Architecture on the Satellite Images by up-scaling them
- Achieved **16 times** the resolution of Satellite images

PROJECTS

SBI CARDS DEFAULTER PREDICTION
Live | Github | Demo Video

- App for predicting defaulters who use SBI Credit Cards.
- Trained the **XGBoost** model with accuracy of **85%**
- **Flask** API to integrate our model HTML,CSS and JS
- **MLOps** tools: Docker, Kubernetes and deployed on **GCP**
- Increased latency using **SQLite database**

ZOMATO CUSTOMERS RATINGS PREDICTION AND ZOMBOT
Live | Github | Demo Video

- Web App for **Predicting Ratings** of any restaurants of the area
- Web Scraped using **Beautiful Soup** from **zomato** for cities of Punjab
- Gathered data of over **3000** restaurants with their City, Location, Cuisine, Pricing, No. of reviews as the columns
- Achieved **86%** accuracy on test data using **Random Forest** Algo.
- Utilized **Flask** API to integrate our model from backend and HTML, CSS and JS as frontend
- Created Interactive **ZomBot** using Natural Language Processing in **Pytorch** and Javascript for **suggesting the best restaurant in the location** for customers
- Carried out **MLOps** using tools- DVC, MLFlow, Circle CI/CD and deployed on **Heroku**

PLANT DISEASE DETECTION
Github | Report

- Android App in **Flutter** to **classify between healthy and diseased** crop leaves and if the crops are diseased, the model predicts the disease and **recommends medication** for the same
- **PlantVillage** Dataset is used which contains **87k** images of **38** categories of plant leaves
- Used **RESNET50** Architecture in Convulational Neural Network(**CNN**) in Python and attained **93% accuracy**
- **Intent** is to **improve farmer literacy** and to detect crop diseases at an early stage so as to accomplish **high quality produce**