# Sugam Mehta

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## 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
</> GFG: sugam0301

## SKILLS

**LANGUAGES**
C/C++, Python

**TECHNOLOGIES**
Proficient:Machine Learning
and Deep Learning
Libraries: Numpy, Pandas,
Sklearn, Matplotlib, Plotly,
Keras, Pytorch, BeautifulSoup
Tools: Git, MySQL
Familiar : NLP, HTML, CSS,
MLOps - MLFlow, DVC, Docker

## ACHIEVEMENTS

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

## COURSES

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

## INTERESTS

• Cricket • Finance • Geopolitics

## 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
- Converted High Resolution **PlanetScope**, **Sentinel** and **NDVI** images to Super Resolution Images
- 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 the restaurants in the city
- Scraped data of over **3000** restaurants with their Location, Cuisine, Pricing, Reviews from **zomato** using **Beautiful Soup**
- Achieved **86%** accuracy on test data using **Random Forest** Algo.
- Utilized **Flask** API to integrate the 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**
📄 Report | ⚫ Github | ▶ Demo Video
- Android App in **Flutter** to **classify between healthy and diseased** crop leaves and **recommends medication** for the diseased crops
- **PlantVillage** Dataset 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**