Aman Bagrecha

Bengaluru, India

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PROFILE

Experienced with open-source tech stack scikit-learn, PyTorch, PostgreSql/Postgis, Geoserver, QGIS, Django, Openlayers, GDAL.

AREAS OF INTEREST

- Geographic Information Science (GIS)
- Remote Sensing
- Web GIS
- Machine Learning

Strong hold on mathematics. Calm headed with excellent team skills.

EXPERIENCE

2021
(Feb 2021- May 2021)

Rotten Grapes Pvt Ltd, Remote — *GIS Developer*
Full Stack GIS developer. Worked on web-GIS applications. Developed two projects-Photo Management application for Brightminds and Drone application for Dronnav.

2021
(oct 2020- June 2021)

Research Intern, IISc — *Surface Drainage modelling using GIS*
Research Intern under Prof. G L Sivakumar Babu. Work on GIS based algorithmic design incorporating cascade modelling, and non-stationarity analysis based on Global Climate Models (GCMs) for rainfall Intensity.

2021
(Feb 2020- Feb 2021)

President, ASCE Student Chapter RVCE
Civil Engineering technical club, Major events: Concrete canoe; ASCE India Regional Conference. Former ASCE editor for The Avenue. Articles to Grid Planning, Ganges rejuvenation, Bengaluru lakes in the annual magazine.

EDUCATION

2021

B.E. in Civil Engineering. Rashtreeya Vidyalaya College of Engineering, India.
Thesis: Mechanistic Approach for The Design of Surface Drainage System of Roads.
Advisor: Dr. Archana MR and Prof. G L Shivkumar Babu

ACHIEVEMENTS

2021   **Rank 5** for Radiant Earth Spot the Crop Hackathon, ZINDI

2020   **Top 1%** for Introduction to Machine Learning Course, NPTEL

2017   **AIR 9562** Joint Entrance Exam advanced

PROJECTS

2021
Geocoding using Mapbox API - *Mapbox, Openlayers*
Application demonstrates how to geocode an address using mapbox API implemented in openlayers v6. On-click of search, the map gets zoomed to the location of Interest.

2021
DRF CRUD Token Authentication Application - *Django REST*
Create API endpoints for DRF-CRUD and add a security layer using Token Authentication.

2020
Analyse professional degree enrolment v/s university count- *Pandas*
To evaluate the trend in higher education over the years based on gender, state, and degree program. Further identify which state requires additional university in the Indian State.

2020
Land Surface Temperature - *ArcGIS*
Determining Land Surface Temperature of Bengaluru, India using ArcGIS for Landsat 8 product.

PUBLICATIONS/ CONFERENCES

2020
Venkatesh, Yashas, **Bagrecha, Aman**, S., Dhanush. Feasibility Study of Floating Solar Panels over Lakes in Bengaluru City, *Second ASCE India Conference, CRSIDE 2020* Volume No. 1 (ISBN: 978-93-5396-500-6), Issue: Edition: 2020 (Edition No. 1).

PRESENTATION AND TALK

2020
Analysis of Flood Region with SAR Imagery- *Google Earth Engine*
Technical presentation on Analysis of Flood Prone Region with SAR Imagery, a case study for Assam.

CERTIFICATIONS

2020	Python for Everybody Specialization
2020	Excel/VBA for Creative Problem-Solving Specialization
2020	Applied Machine Learning in Python
2020	Computer Aided Applied Single Objective Optimization (8 Weeks)
2020	Introduction to Machine Learning
2020	Data Analytics with Python (12 Weeks)
2020	SQL for Data Science
2020	GIS Data Formats, Design and Quality Imagery, Automation, and Applications
2020	Sequence Models
2019	MATLAB programming for numerical computation