Aman Bagrecha

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Education

B.E. in Civil Engineering. **Rashtreeya Vidyalaya College of Engineering, India.**	**2017-2021**
Thesis: Mechanistic Approach for The Design of Surface Drainage System of Roads.	**CGPA:** 9.01/10
Advisor: **Dr. Archana MR** and **Prof. G L Shivkumar Babu**	

Skills

Programming Languages Python, JavaScript, SQL, MATLAB
Tools and Libraries Geoserver, QGIS, Django, GDAL, scikit-learn, PyTorch, ArcGIS

Experience

Rotten Grapes Pvt Ltd, Remote — *GIS Developer*   **2021**
Full Stack GIS developer. Worked on web-GIS applications. Developed two projects- Photo   *(Feb 2021- May*
Management application for **Brightminds** and Drone application for **Dronnav**.   *2021)*

Indian Institute of Science, Research Intern — *Surface Drainage modelling using GIS*   **2021**
Research Intern under Prof. G L Sivakumar Babu. Work on GIS based algorithmic design   *(oct 2020- June*
incorporating cascade modelling, and non-stationarity analysis based on Global Climate   *2021)*
Models (GCMs) for rainfall Intensity.

ASCE Student Chapter RVCE, President — *Civil Engineering technical club*   **2021**
Major events: Concrete canoe; ASCE India Regional Conference. Former ASCE editor for The   *(Feb 2020- Feb*
Avenue. Articles to Grid Planning, Ganges rejuvenation, Bengaluru lakes in the annual   *2021)*
magazine.

Achievements

Top 1% for Introduction to Machine Learning Course, **NPTEL**
Rank 5 for Radiant Earth Spot the Crop Hackathon, **ZINDI**

Projects

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.

Polygon Selection and Area Calculation in Openlayers - *Openlayers*
Make polygon selections on the map and calculate the area of that polygon on-the-fly using Openlayers v6.

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

Publication/Presentation

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).	**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.	**2020**

Test Score

JEE Advanced
Scored 183/306 with all India rank of 9562 for the joint entrance exam-advanced

2017

Certifications

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	**2020**
Convolutional Neural Networks in TensorFlow	**2020**
MATLAB programming for numerical computation	**2019**