



Sandeep Kumar

Product Engineer - Data Science

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🗣 urbantalks.in

Summary

Experienced Software Engineer with a demonstrated history of working in the computer software industry. Skilled in Python, Java script, Computer Vision, Image Processing, Backend Rest Applications and Geographic Information Systems. A passion to work with technologies that improve lives of people and make this planet a better place to live.

Soft Skills

Problem Solving Attitude

Average Speaker

Clear Communicator

Quick Learner

Key Skills

Python



Javascript



C++



Geographic Information Systems



ArcGIS, PostGIS, QGIS, GDAL, GEOPANDAS

Backend and REST APIs



Django, Node JS, NGINX, Postgresql

Computer Vision



Pytorch, Tensorflow

Workshop and Conferences

- Speaker at ESRI India User Conference 2019.
- Speaker at 1st International Workshop on Advanced Spatial Analytics and Deep Learning for Geospatial Applications at Center for Spatial Analytics and Advanced GIS (2020).

Links

Personal Blog : <http://urbantalks.in>

Samples: <http://test.urbantalks.in/python-examples/Notebooks/>

My Github: <https://github.com/sandeepgadhwal>

My Gitlab: <https://gitlab.com/sandeepgadhwal1>

Hacker Rank: <https://www.hackerrank.com/sandeepgadhwal1>

Linkedin Profile: <https://www.linkedin.com/in/sandeep-kumar-49b076ab/>

Work experience

Product Engineer - Data Science

2019-05 - current

ESRI

I am working on a unique combination of GIS and Data Science, the solution we are building tries to use computer vision techniques and deep learning to create scalable mapping and spatial analytics solutions.

WebGIS Developer

2018-05 - 2019-05

Andhra Pradesh Space Application Center

Full stack GIS Developer worked on to create the backend APIs as well as the frontend platform. On the journey to create a state enterprise portal for WebGIS i Dealt with python, JAVA and Nginx and deployed solutions like geoserver, geonetwork, map proxy, OSRM and ArcGIS Enterprise. I used Django rest and Spring framework to create a robust backend, and django for a interactive frontend. This all was scaled up using Nginx load balancer working on redundant upstream servers. I was also responsible to create the WebGIS applications for various departments and projects of State government.

<https://apsac.ap.gov.in/dashboard-staging/>

<https://apsac.ap.gov.in/geonetwork/srv/eng/catalog.search>

Gis Software Consultant

2016-10 - 2019-05

Avenue Reality

I have developed a Property Portal on this website enabling users to search according to their need and get pricing, landuse, extent, facing and other related legal information. I have developed the whole GIS database and GIS backend api that powers this website.

<http://avenue.in/Amaravati-plots/>

WebGIS Consultant

2016-01 - 2019-05

Upwork, Freelancer

I worked as a freelance GIS developer on upwork and freelancer, I was involved in a wide variety of projects including full stack Development, PWA apps development, Backend Rest Services, Spatial Analysis, Routing Services, etc. Most of the projects involved dealing with spatial datasets. While i was active on upwork i was a top rated freelancer and completed more than 50 small and mid-sized projects of value more than 25 Lakh INR.

Upwork Profile: <https://www.upwork.com/freelancers/~013d38246be72bec66>

Intern Urban Planner

2017-05 - 2017-07

Egis India Consulting Engineers Pvt Ltd.

I worked on proposals for smart city policies to government in public bike sharing project. My proposal was adopted by them after a few modifications and implemented on ground. I was also responsible to create digital data sets from old maps of municipal corporation.

Web Manager

2016-01 - 2017-04

National

I worked on to create the web infrastructure for the student body including a VPS server that was used to host group website, publications and announcements.

Intern Urban Planning

2016-05 - 2016-07

Municipal council

Worked with municipal body to digitize the Rajasthan Urban Sector Internship Program:

1. Planning of GIS based wards. and development of web portal to host the Ward Map.
2. Watershed and green space Analysis.

Education

MASTERS

2019 - 2021

Birla Institute of Technology and Science, Pilani

M.Tech - Data Science and Engineering

BACHELORS

2014 - 2018

SCHOOL OF PLANNING AND ARCHITECTURE

B.Plan - Urban Planning
