

Rutvik S Jaiswal

Python Developer



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Summary

Python Developer with expertise in Flask, experienced in creating end-to-end pipelines and implementing machine learning models. Successful track record of delivering solutions for complex projects, showcasing strong Python programming skills.

Experience

Harman Connected Service May 2022 - Present

Airport AI

Position: Associate Engineer [Python Developer]

As part of Smart Airport, Airport Authorities trying to predict the number of people entering/leaving the airport for next 24 hours. By using the historical passenger's data, travelled through the Airport.

Responsibilities:

- Developed web applications using **Flask**, **HTML/CSS**, **JavaScript** and **React JS**.
- Designed and implemented UI components, APIs to support client requirements.
- Integrated ML models into web applications, creating pipelines that processed data and provided insights to end-users. ensuring efficient communication between the front-end and back-end components
- Conducted EDA using **Pandas**, **Matplotlib**, and other DS libraries.
- Collaborated with team members to identify and prioritize bug fixes and feature improvements, using version control (e.g., **Git**).
- Documented code, processes, and project requirements to ensure smooth transitions between team members.
- Participated in code reviews and peer programming sessions to share knowledge and learn new skills

Smart City

Position: Associate Engineer

As part of a Smart City Project, the team is working to reduce traffic violations and improve road safety by detecting and issuing compliance notices to individuals not wearing helmets. This involves the development and implementation of a system that can accurately detect helmet usage using computer vision techniques

Responsibilities:

- Collected and processed quality data for computer vision model training.
- Developed **end-to-end pipeline** for data collection, model training, prediction, and deployment.
- Implemented object detection and tracking system using **YOLO v5** and **YOLO v4**
- Implemented Deep SORT algorithm for real-time object tracking and analysis.
- Optimized model performance by incorporating multithreading techniques, resulting in a 20% improvement and enhanced real-time processing capabilities.

Education :

AISSMS Institute of information technology ,Pune
BE In Electrical Engineering (CGPA 8.85)

Open Source Contribution

Github Link : https://github.com/sunnyar/indian_festivals

PyPi : <https://pypi.org/project/indian-festivals>

Contributed to the India Festival Python library, a community-driven project that provides information about Indian festivals. Improved the library by modifying the API call and adding exception handling in urllib2, resulting in more robust and reliable data retrieval. Played a key role in ensuring the accuracy of festival information for users of the library.

Internship:

iPrimed

March/2022 -May/ 2022

AI/ML Engineer

- 1. Training based on Machine learning and Data science
- Python Core
- Build Review Scrapper Project
- Build Music recommendation system from scratch

Technical skill :

1. Python : 5 Star in HackerRank

- **Library :** Numpy ,pandas ,Scikit-learn Matplotlib ,Seaborn ,OS ,Glob
- **API :** Flask

2. SQL (MySQL)

3. Git and GitHub

4. Machine Learning

5. Anaconda / PIP / CONDA

7. HTML ,CSS . JS

8. Object Oriented Programming

9. React JS

Training / Course :

iNeuron

- Core Python hand on practice
- Github and Git commands
- Deploying Python Project using Flask API
- Deploying Project to cloud platform(heruko)
- Build model and store in the docker follow CI-CD Pipeline structure
- Hand on statistics and implement it using Python library
- EDA on various kind of data

Project :

Review Scrapper

- Able to scrap review, rating , name of customers
- Use case : To train,test of machine learning model and used for future modeling
- deploy project on heruko