Harsh Narayan

Gender: Male
Course: M.Sc. in Data Science
Fergusson College

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Summary/Objective:

A Data Scientist enthusiast having a solid foundation in statistical analysis, machine learning, and data-driven decision-making. Proficient in Python, R, and popular machine learning libraries. Adept at transforming complex datasets into actionable insights and deploying machine learning models in real-world scenarios.

Educational Educational Qualification:

Degree/Examination	Year of Passing	Institute Name
M.Sc. Data Science	2024*	Fergusson College, Pune
B.Sc. (Hons.) Statistics	2020	Patna Science College, Patna University
12th	2017	Kendriya Vidyalaya (CBSE)

Projects:

1. **Automated machine Learning Pipeline - Project** ***MAY 2023 - JULY 2023***

Technology/Skills: Python, Machine Learning, PyCaret, Streamlit, HTML and CSS.

Gap: --

Developing a machine learning web app tool to automate the process of loading data, generating profile report, perform different models and download best trained model for each data we upload. The project focuses on Generating pipeline of best model for different datasets.

Solution: --

- **Developed user interface to upload dataset on which he/she want to perform modelling.**
- **used Y-Data library to generate profile report of uploaded dataset.**
- **Used PyCaret library for applying different Machine Learning models as per user and dataset required.**
- **Use Streamlit framework to develop an interactive web application for automated ML Pipeline.**

2. **Prediction of Mental Health Status using Machine Learning Model - Project** ***SEP'2023 -OCT'2023***

Technology/Skills: Python, Machine Learning, Scikit-learn, Tensorflow, Streamlit, HTML and CSS.

Gap: --

Developing a machine learning model for precise mental health status prediction is crucial, incorporating technology to enhance medical care. The project focuses on evaluating and deploying effective models for web application integration.

Solution: --

- **Done a Survey with google form and collected data by asking questions related to mental health.**
- **Pre-processed our collected data and make it suitable for Machine Learning training.**
- **Then saved best performing model (ANN Regressor model) in .h5 file.**
- **Develop a Web-Application to predict mental health status over that trained model using Streamlit.**

3. **Habitable planet prediction - Project** ***NOV'2023 – Present***

Technology/Skills: Python, Machine Learning, Scikit-learn.

Gap: --

Objectives are to (1) develop habitability metrics and classifications, (2) trace the evolution of terrestrial habitability, (3) assess the habitability potential of solar and extrasolar planets, (4) devise tools and methods for ground, orbital, and remote habitability assessments.

Solution: --

- The exoplanet data comes from the NASA Exoplanet Archive and includes planets up to 2.5 Earth radii or 10 Earth masses orbiting within the optimistic stellar habitable zone to be as inclusive as possible.
- Calculating Earth Flux using mathematical Flux formula to get knowledge about earth radius.
- Work in progress...

Areas of Interest:

- NLP*
- Deep Learning
- Machine Learning

Relevant Courses:

Academic (BSc)	Probability and probability distributions, Regression analysis, Testing of Hypothesis, Statistical Inferences, Sample Survey, Statistical tests, Design of experiment, Numerical analysis, Time series analysis etc.
Academic (MSc)	Python (DS & DSA), SQL, R, DBMS, ML, DL, Linear Algebra, Probability & Statistics, Mathematical Foundation, NLP.

(* indicates ongoing course)

Key Skills:

Languages: • Python • R • SQL • JS • HTML • CSS

Software/Tools: • MS-Excel • Power BI • AWS*

Activities:

- Winner of Poster Presentation Competition at College level.
- Winner of Badminton tournament at inter-college level.
- Winner of Chess tournament at inter-college level.
- Organised Badminton tournament during under graduation.