

# Bhavna Dora

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## Profile

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Data science and Machine learning enthusiast with proficiency in Python, Data analysis, Data visualization and Machine learning. Excited to leverage my strong foundation in Physics, Mathematics and analytical thinking to solve real world challenges.

## Projects

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### Machine learning approach to detect pulsars

2022

- Classification algorithms like Logistic Regression, Decision Tree Classifier, Random Forest Classifier were employed to find the accuracy of detecting whether the stars were pulsars or not.

### Diamond Price Prediction

2023

- Regression algorithms like Linear regression, Lasso, Ridge and ElasticNet were employed to predict the price of diamond.
- Performed Exploratory Data Analysis and built components and pipelines in modular format.
- Model was deployed in AWS using Elastic Beanstalk and Code Pipeline

### Flipkart Web Scraping

2023

- Product's reviews, ratings, comments etc. were scraped from Flipkart's website.
- Web scraping was done in Flask, the data collected was stored in MongoDB database.
- Deployed in AWS using Elastic beanstalk and Code pipeline.

### Amazon Sales in India

2023

- Built an interactive Tableau Dashboard on Amazon sales in India using Tableau Public and published it.

## Certificates

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### Data Science Masters

PW Skills

### Python

HackerRank

## Skills

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### Programming Languages

Python, C



### Data visualization tool

Tableau



### Databases

MySQL, MongoDB



### Cloud

AWS



### MLOps

Docker



### ML & Web frameworks

Flask, Tensorflow



## Professional Experience

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### ML Research Intern

*Spartificial*

10/2022 – 03/2023

- Learnt how to integrate Deep Learning techniques, such as CNN & OpenCV, with Astrophysics.
- Built a model to detect anomalies in surveillance videos using Neural network architectures.

### Subject Matter Expert, Advanced Physics

*Chegg Inc.*

## Education

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### Master of Science

*Utkal University*

2020-22

Major: Physics

9.33 CGPA

### Bachelor of Science

*Rama Devi Women's University*

2017-20

Major: Physics

8.7 CGPA

## Awards

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### University Rank-1 (M.Sc. Physics)

*Utkal University*

### State scholarship awardee

*Institute of Mathematics and Applications*

GATE (2022), IIT JAM (2020)