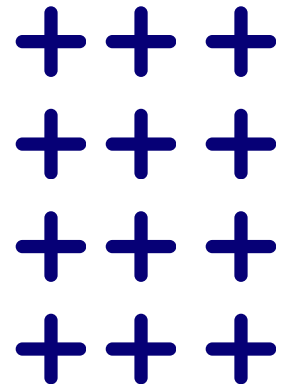# Model Building on Doctor's Fee Prediction

CONTACT ME AT

PRACTO.COM

PRESENTED BY
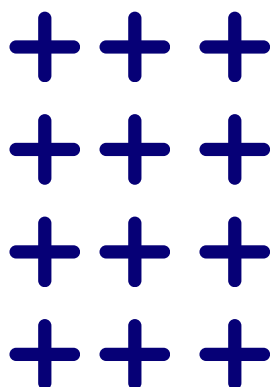
SACHIN LANJE

SAWRAV YADAV

SHUBHAM PATHAK

VISHWANATH J

FARZEENA P A

INTRODUCTION

Practo is an mhealth platform that connects patients with healthcare providers through booking appointments, check-ups, and consultations.

OBJECTIVE

Develop a healthcare analytics system for Delhi, Mumbai, and Bangalore.

BENEFITS

- Enhance patient-doctor matching
- Facilitate transparent pricing
- Optimize healthcare costs
- Improve healthcare accessibility and affordability.

TABLE OF CONTENT

PROCESS

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SUMMARY

LEARNINGS

PROCESS

1 Scrap the data from Practo.com

2 Performing EDA,and getting insights.
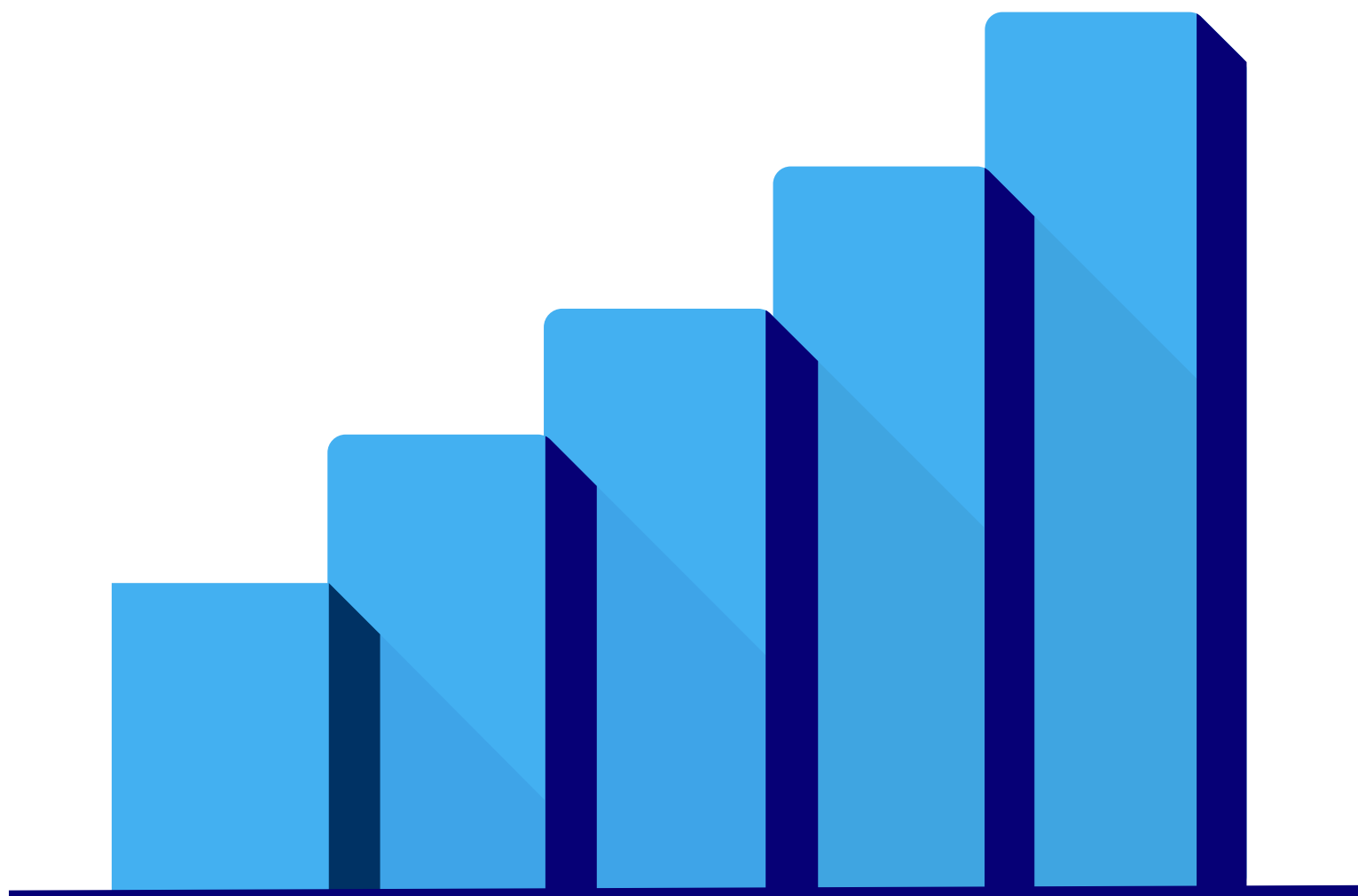
3 Building a machine learning model

4 Deployment of model

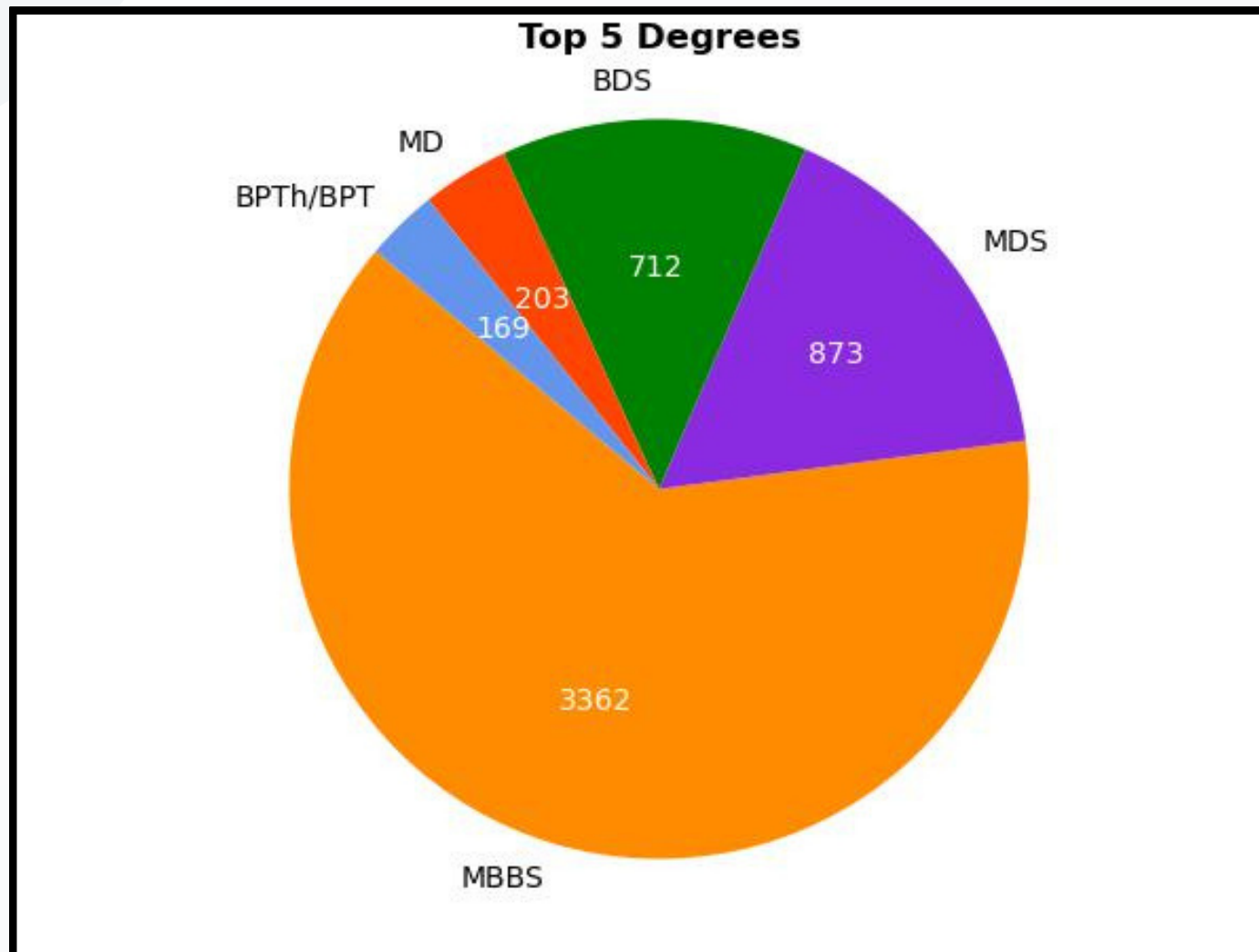**5** Creating the webpage

INSIGHTS

DOCTORS DEGREE

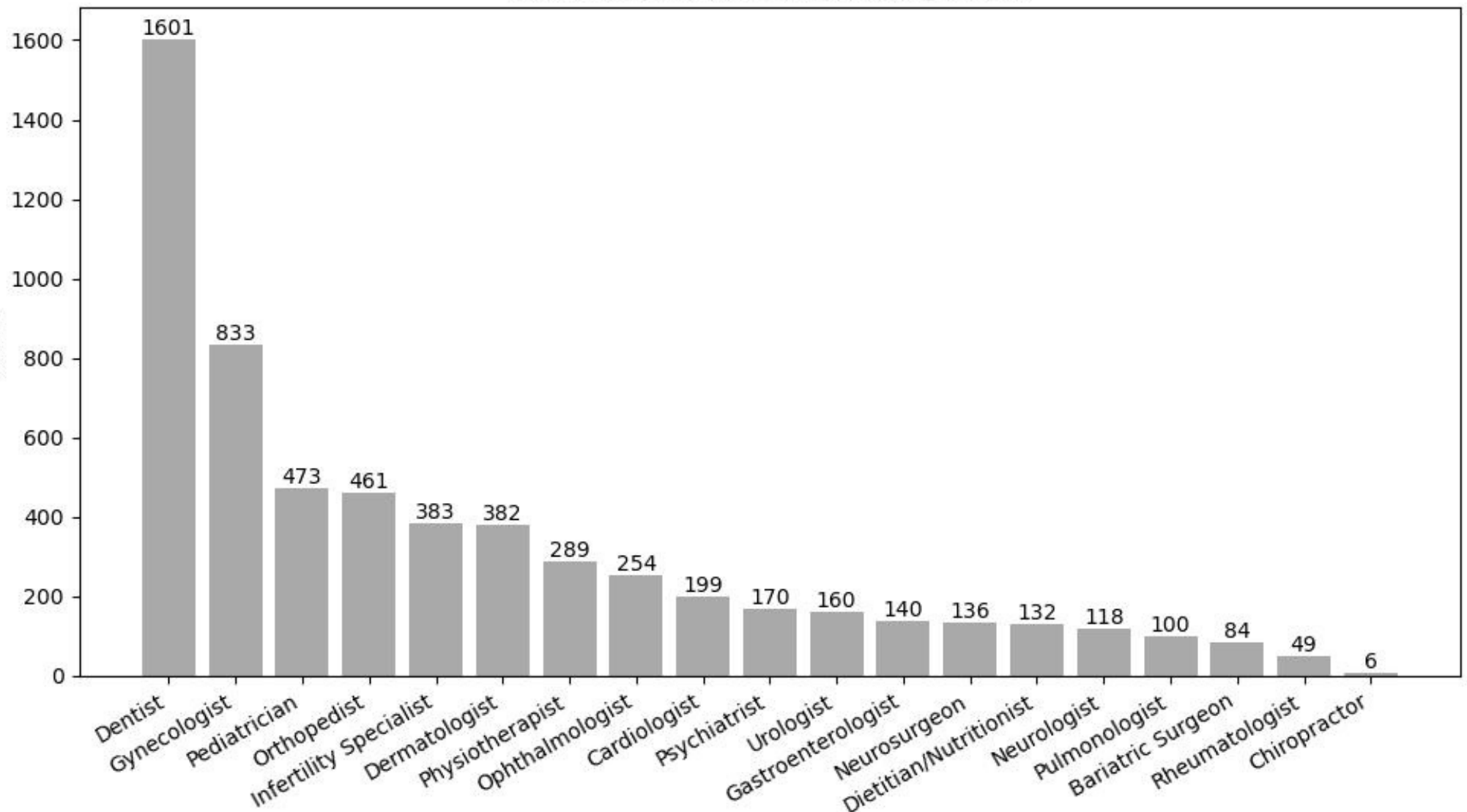**Top 5 Degrees**

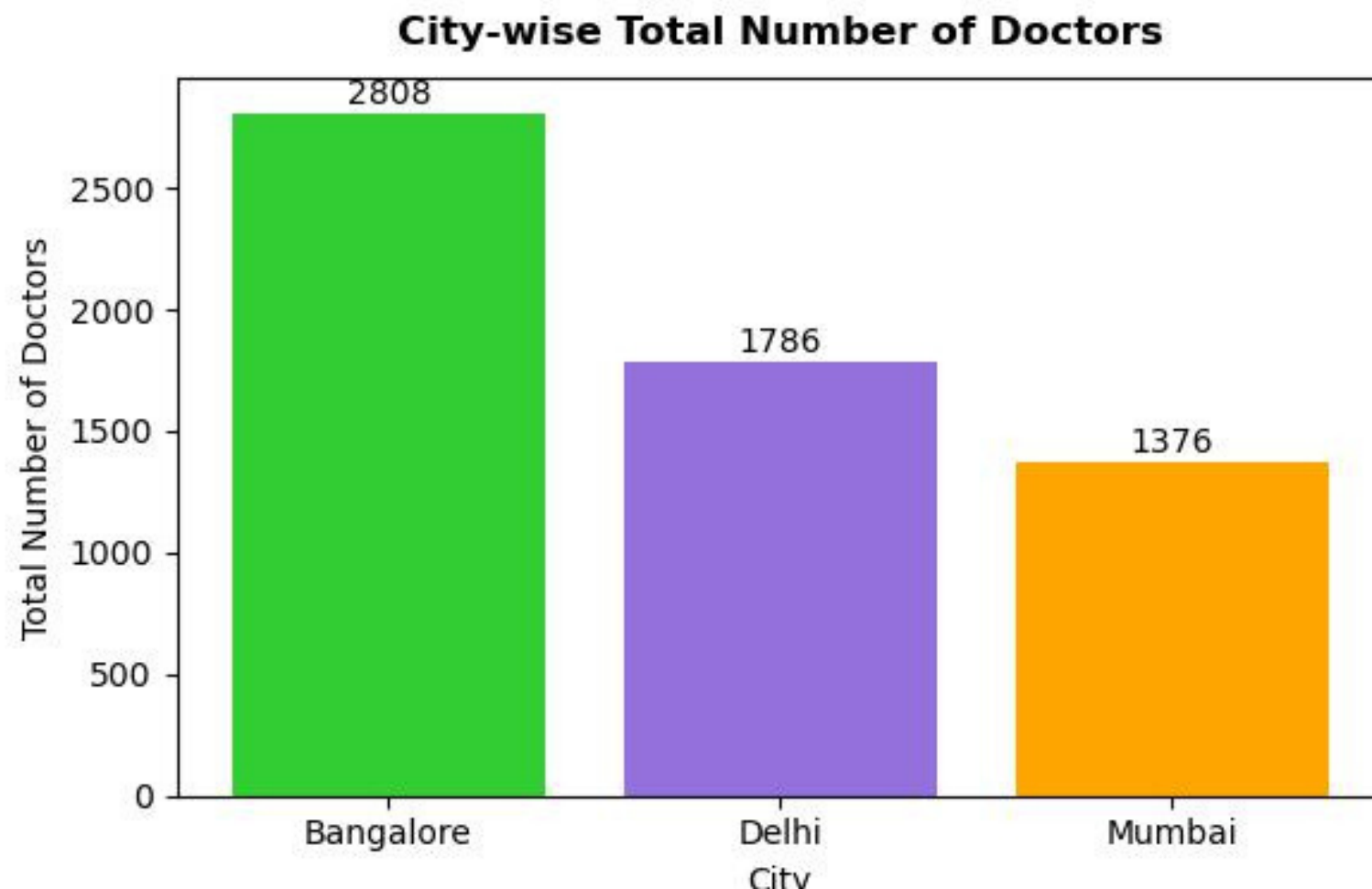MBBS-3362   MD-203

MDS-873   BPT-169

BDS-712

COUNT OF DOCTORS FROM DIFFERENT SPECIALITIES

Count of Specialities (Descending Order)

More than 1500 doctors registered on Practo platform are Dentist

CITY-WISE DOCTORS

City-wise Total Number of Doctors

Bangalore as the highest number of doctors, i.e 2808 doctors

MODEL SCORES

MODEL	MAE	RMSE	R-squared	Training Score	Testing Score
Linear Regression	180.69	242.08	0.52	0.49	0.52
Decision Tree	242.42	340.31	0.05	0.98	0.05
Decision Tree (Hypertuned)	193.44	256.36	0.46	0.53	0.46
Ramdom Forest	191.49	253.98	0.47	0.91	0.47

Linear Regression is giving the best testing score among other models.

CHALLENGES / LEARNINGS

01

Data Extraction
We intially faced difficulties to get the data from the server,as we had to explore it, and tried to figure it out..

02

Data Preprocessing
We brainstormed and tried different methods to cleanup and make it useful.

03

Lack of Time
Meeting the project deadlines requires a good time managment skills.

04

Creating the webpage
As we are new to this concept, this was quiet challenging and interesting in creating it.

05

Explore the modelling
We gained the knowledge of machine learning.

SUMMARY

The project encompasses data scraping from Practo's website using Beautifulsoup,selenium.Using the data for extracting the insights from it. Development of a regression model for Doctor Fee prediction, and the deployment of this model on a webpage.

www.practo.com

THANK YOU