



DOCTOR FEE PREDICTION





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OUR TEAM



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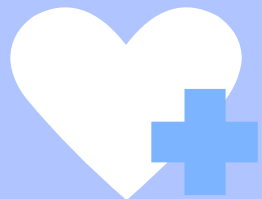
MONIKA SINGH JADON
DATA ANALYST



PROBLEM



1. **Fee Variation:** Consultation costs differ due to diverse factors.
2. **Doctor's Factors:** Experience, specialization impact fees.
3. **Location Effect:** Geographic area influences costs.
4. **Facility Type:** Hospital or clinic type matters.
5. **Patient Uncertainty:** Predicting visit expense is challenging.



INADEQUATE REACH



HIGH-PRICED



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DISCOMFORT





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PROJECT EXECUTION ROADMAP



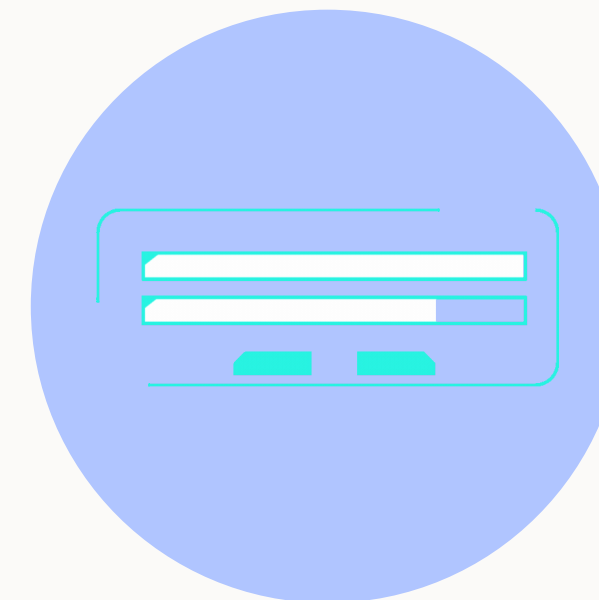
**Data
Collection**



**Data
Cleaning**



EDA



ML Models



Web Page

WE ARE ALWAYS BE THERE

01

PREDICTING FEES WITH ML MODEL:

- Build a tool to estimate consultation fees.
- Helps patients plan expenses before appointments.
- Better understanding of costs from different providers.

02

BENEFITS FOR PATIENTS:

- Informed decisions about healthcare costs.
- Effective expense planning.
- Clearer understanding of financial impact.

03

BENEFITS FOR ORGANIZATIONS:

- Improved pricing strategies.
- Better resource allocation.
- Enhanced overall cost management.



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OBJECTIVE

Gather diverse doctors' data from Practo using Python's BeautifulSoup or equivalent.

Organize collected information as per the specified format.



Name of the doctor

Speciality of doctor

Degree type

Total year of experience

Location of clinic

City of clininc

dp_score- Doctor Patient score

npv - No. of people vote

Consultation fee at clinic

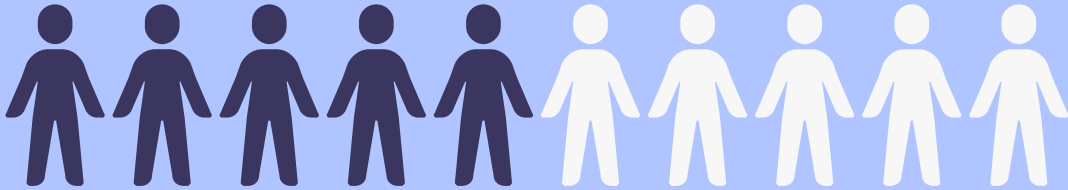


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CITY WISE ANALYSIS OF DOCTORS

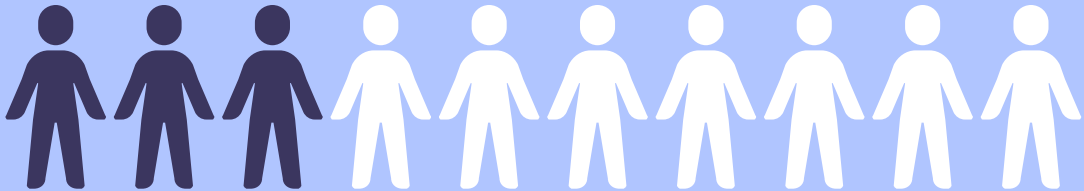
50%

Bangalore



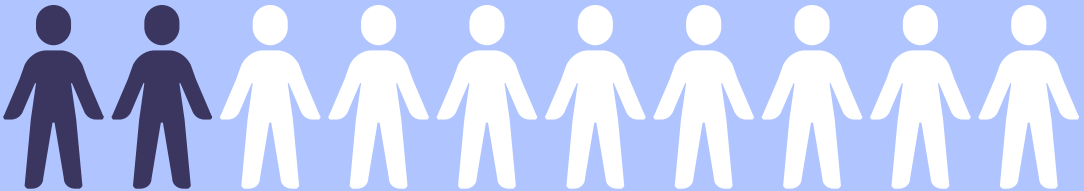
30%

Delhi



20%

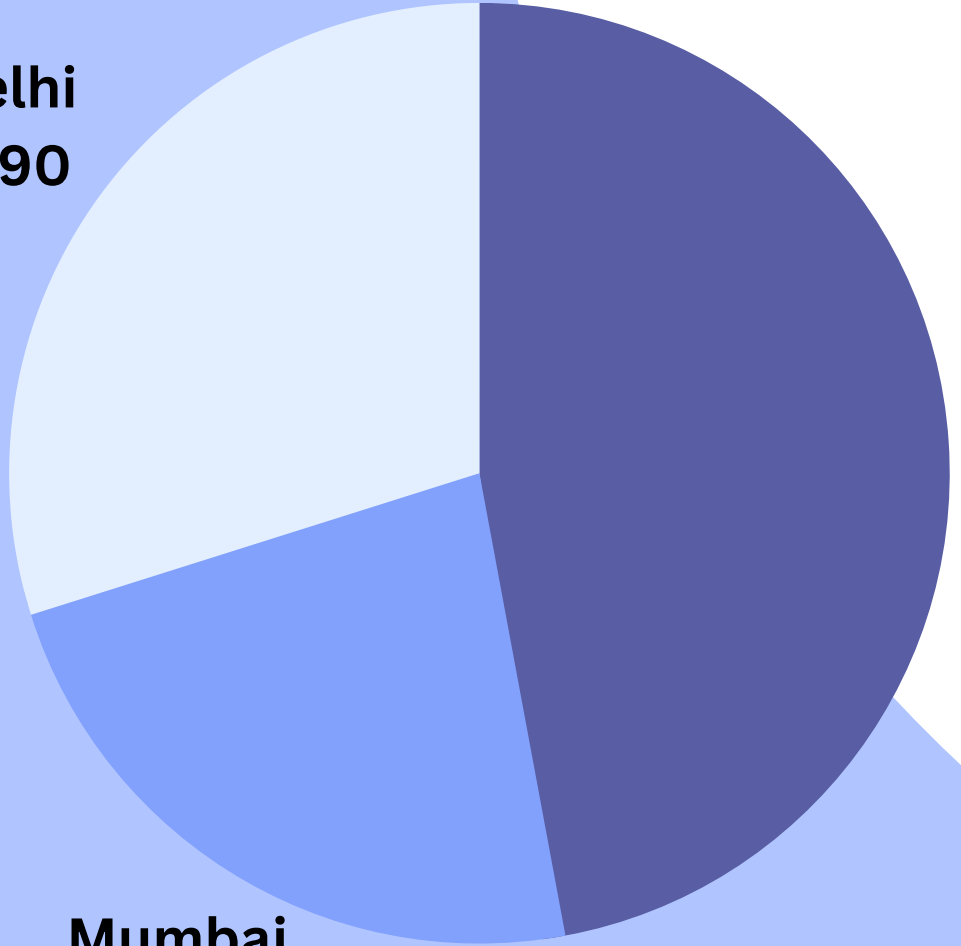
Mumbai



Delhi
1790

Bangalore
2821

Mumbai
1382



CITY WISE COUNT OF DOCTORS

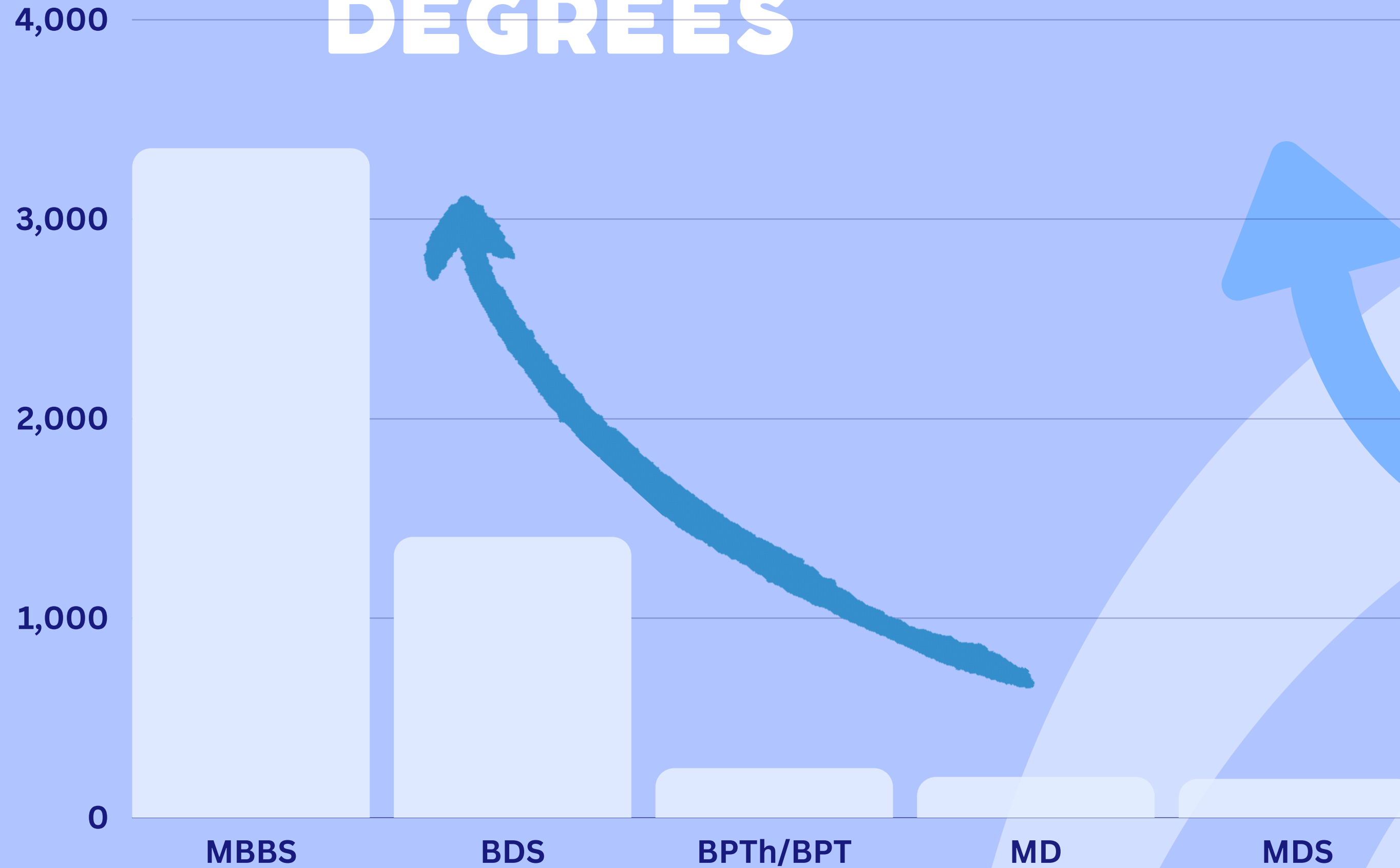


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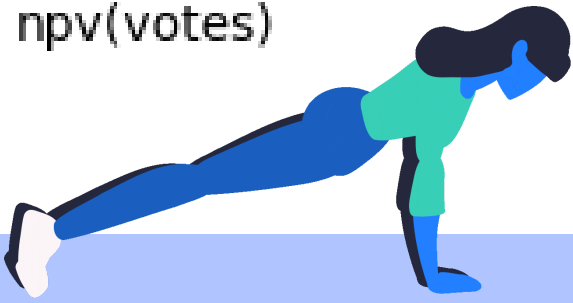
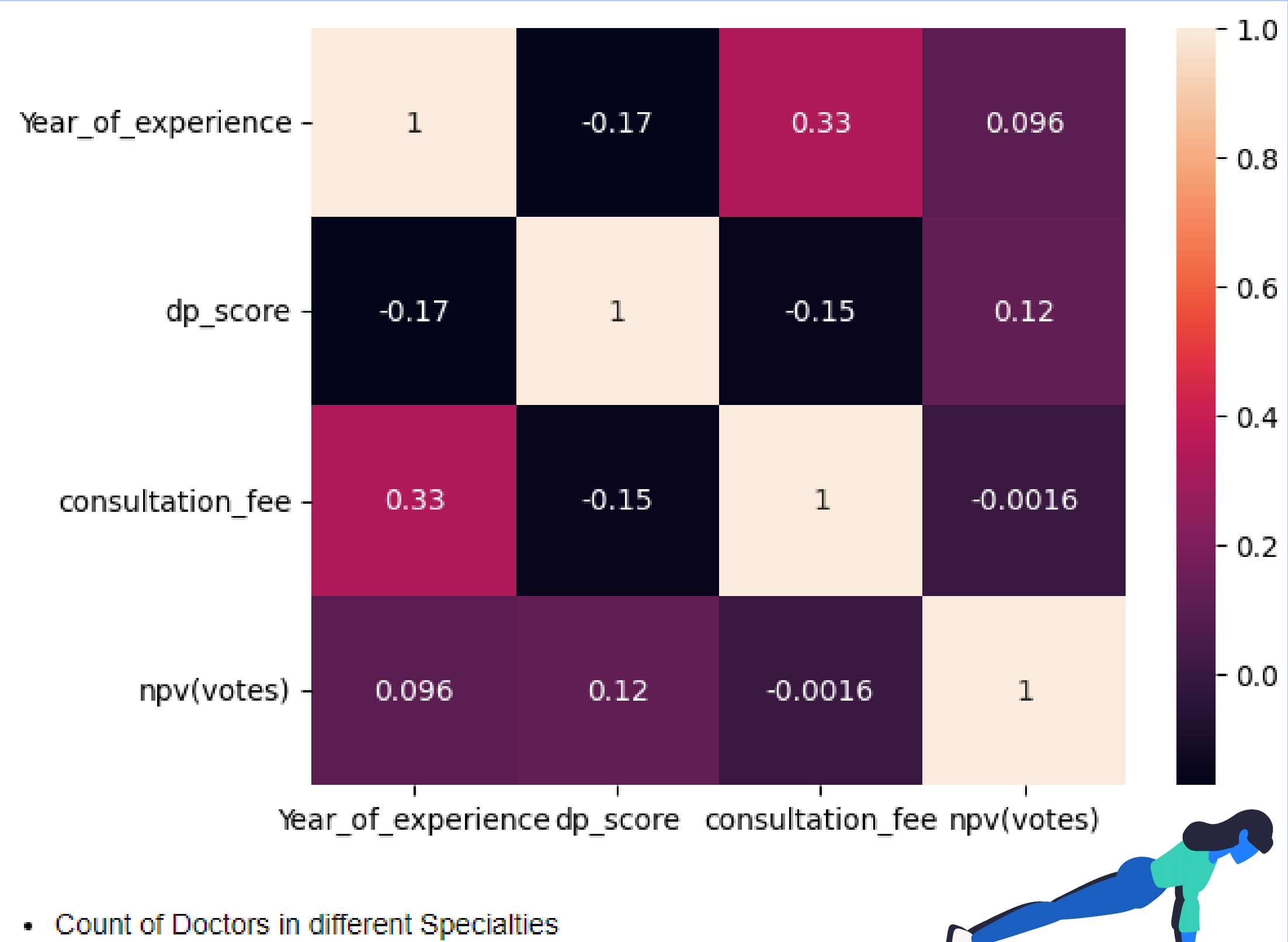
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MOST COMMON DEGREES



CORRELATION BETWEEN DIFFERENT VARIABLES

CORRELATION HEAT MAP



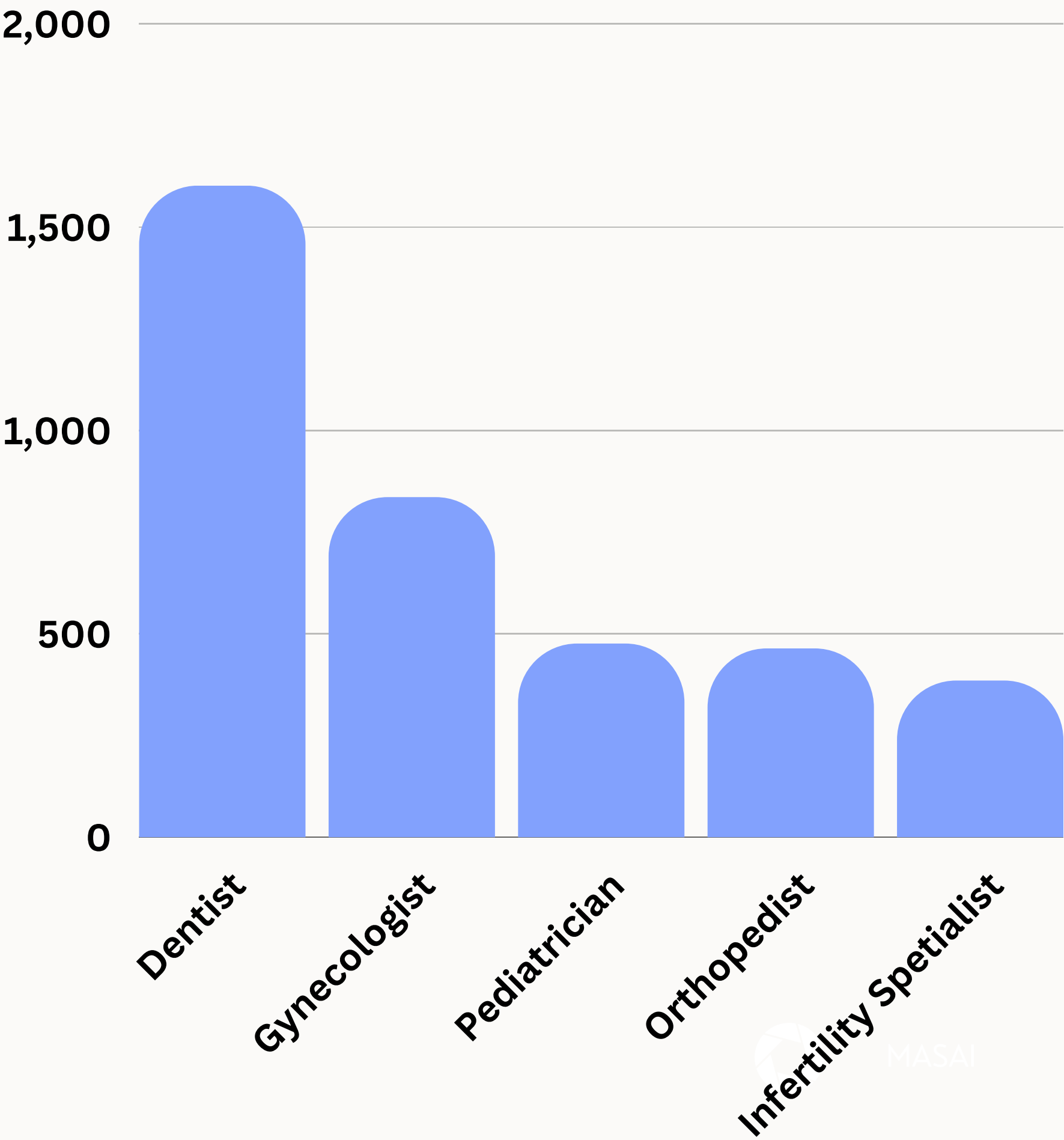


ML MODELS

Decision Tree Regressor	MSE	67793.327
	RMSE	260.371
	r2_Score	0.422394
Extremely Randomized Tree	MSE	55821.472
	RMSE	236.266
	r2_Score	0.524396

Machine Learning models		
Linear Regression	MSE	83034.267
	RMSE	288.157
	r2_Score	0.29254
Random Forest Regressor	MSE	54214.275
	RMSE	232.839
	r2_Score	0.538089
Gradient Boosting Regressor	MSE	54015.227
	RMSE	232.412
	r2_Score	0.539785
AdaBoost Regressor	MSE	66776.452
	RMSE	258.411
	r2_Score	0.431058

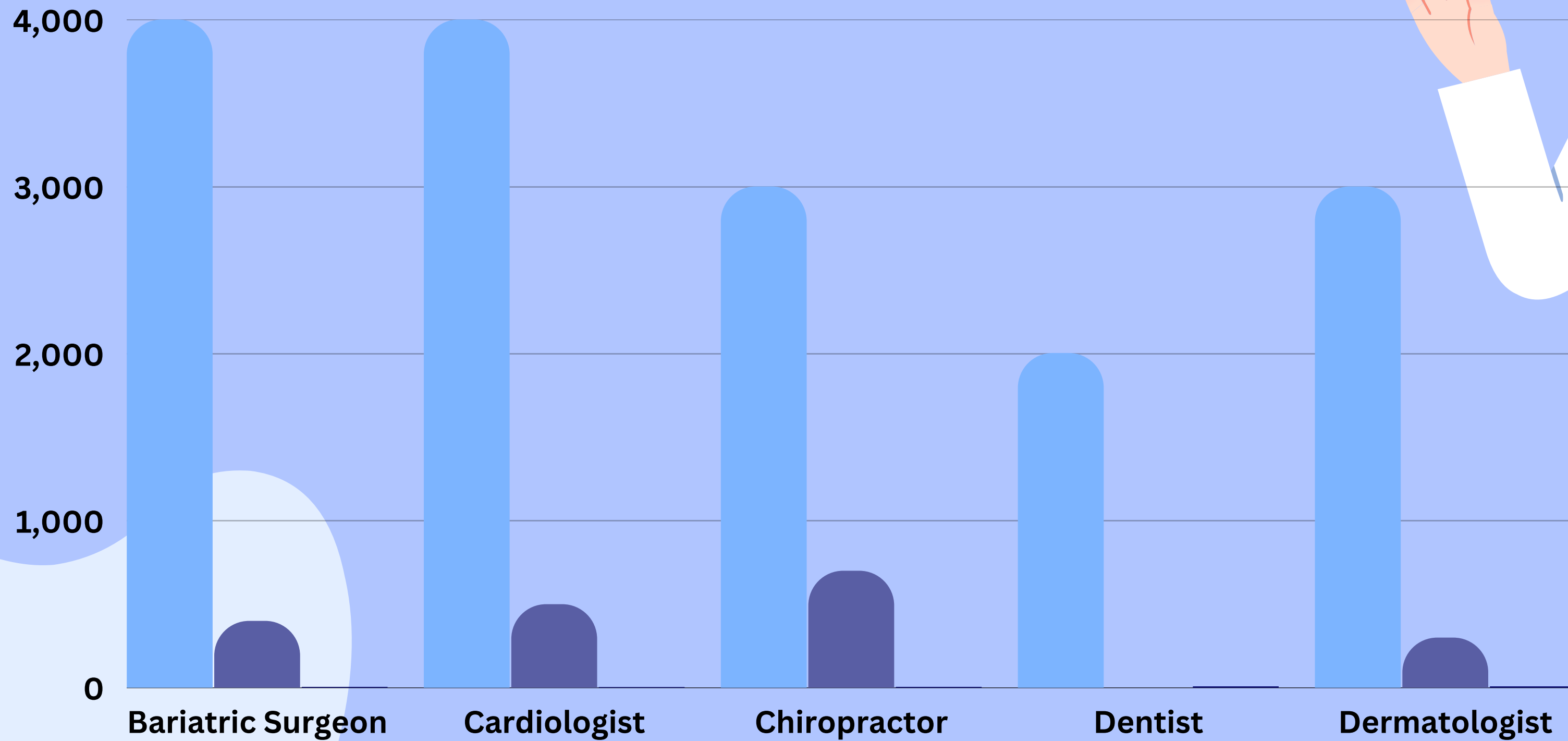
COUNT OF DOCTORS IN DIFFERENT SPECIALTIES



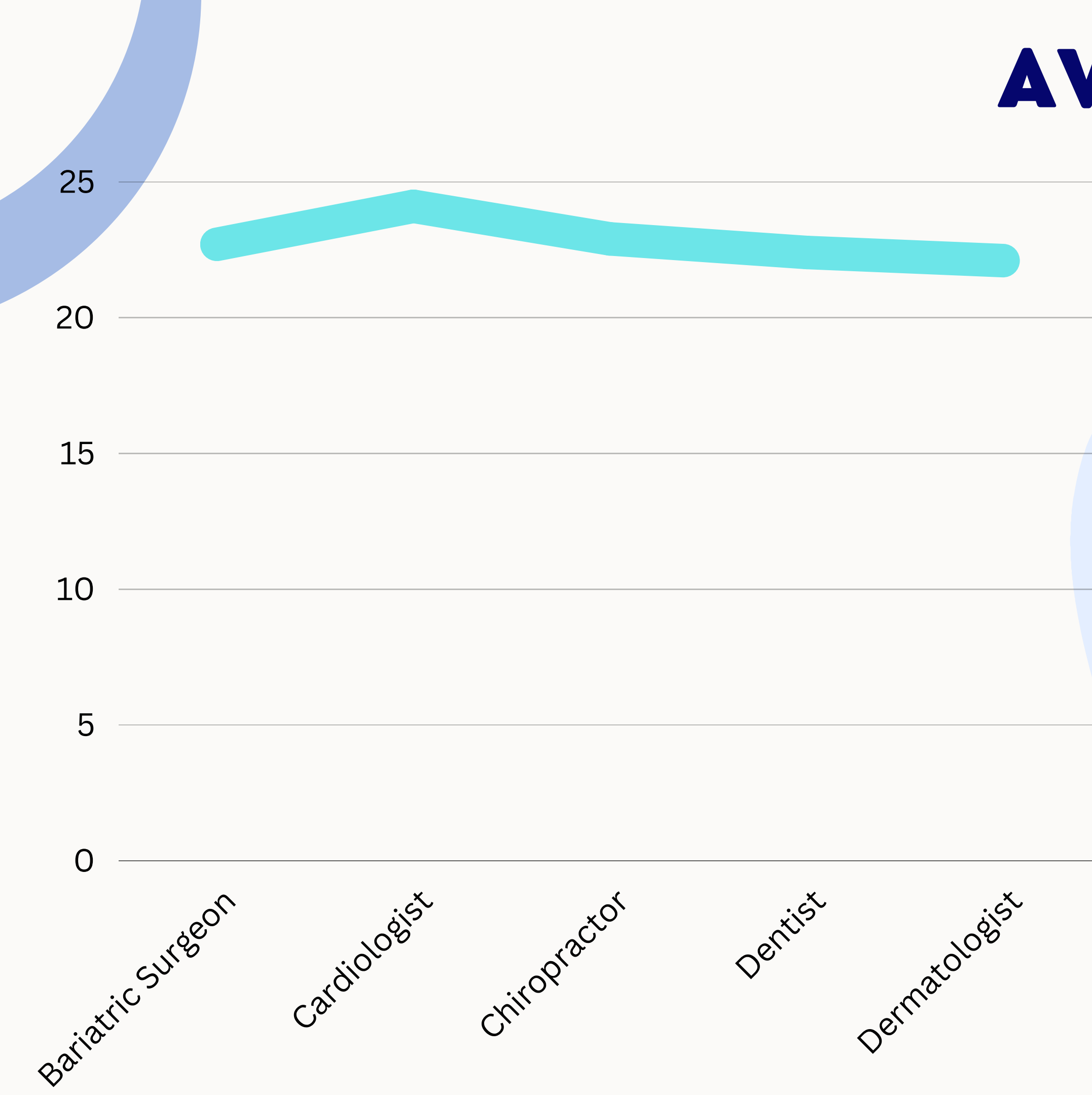


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MAXIMUM AND MINIMUM CONSULTATION FEES BY SPECIALITY



AVERAGE YEARS OF EXPERIENCE



RESULTS

THE RESULTS ARE
DEMONSTRATED IN A
FORM OF WEBPAGE .
THE FEATURES ARE
ENTERED AND THE
DOCTOR'S FEES IS
PREDICTED.



PREDICTED CONSULTATION FEE

Doctor's Fees Prediction

Speciality of Doctor:

Cardiologist

Degree Type:

MBBS

Year of Experience:

13

City:

Bangalore

Location:

Koramangala 7 Block

DP Score:

32

NPV:

34

Submit

Question & Answers



OK





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Thank you 