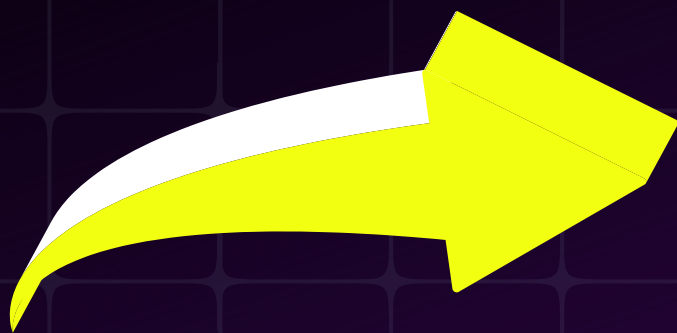


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Machine Learning Development Life Cycle



SHIVAM MODI

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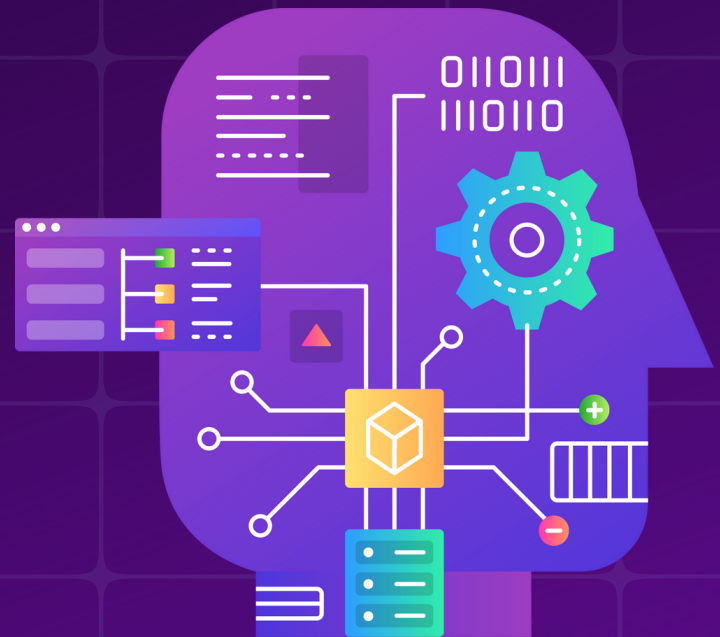
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1

Framing the Problems



**Business
Problem**



**Machine Learning
Problem**

2

Gathering Data



I. CSV



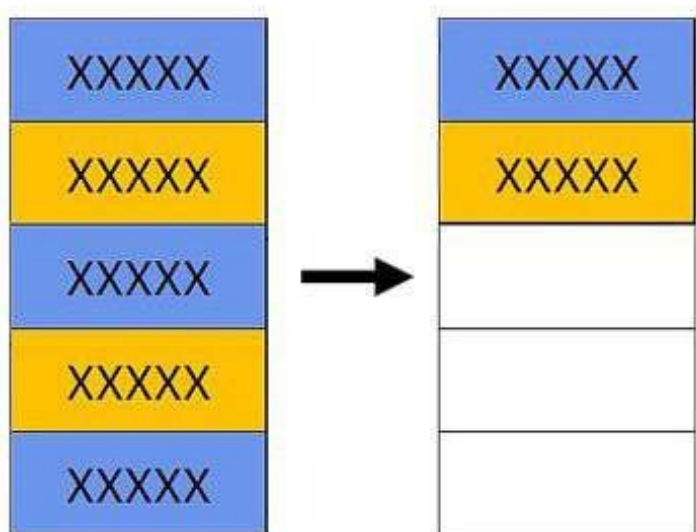
II. API



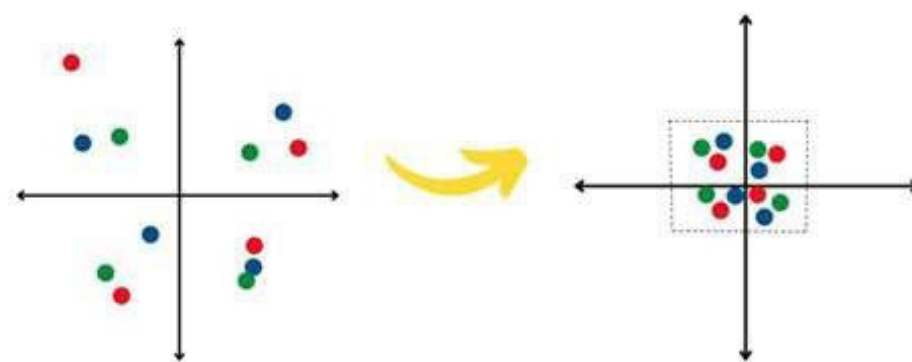
III. Web Scrapping

3

Data Preprocessing



I. REMOVE DUPLICATE



III. FEATURE SCALING

ID	C1	C2	C3	C3
A	92	4	2	2
B	9	13	NA	1
C	NA	NA	8	17
D	8	33	19	1
E	22	32	9	1

→

ID	C1	C2	C3	C3
A	92	4	2	2
D	8	33	19	1
E	22	32	9	1

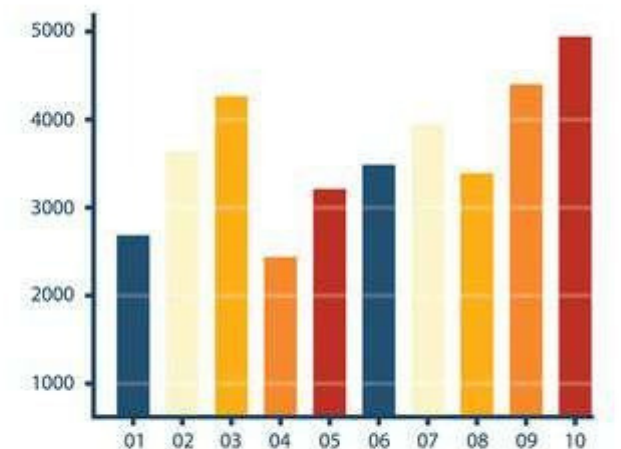
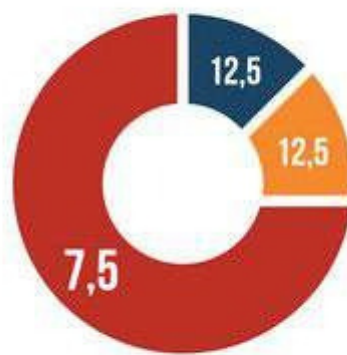
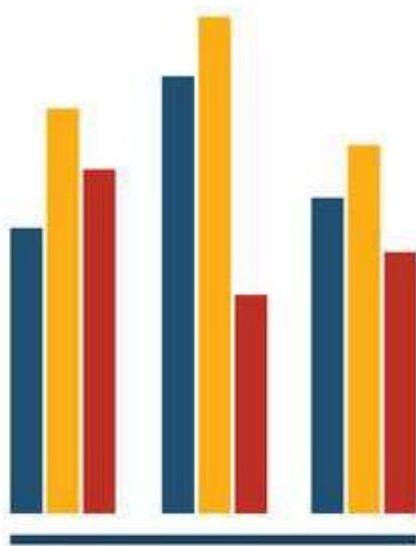
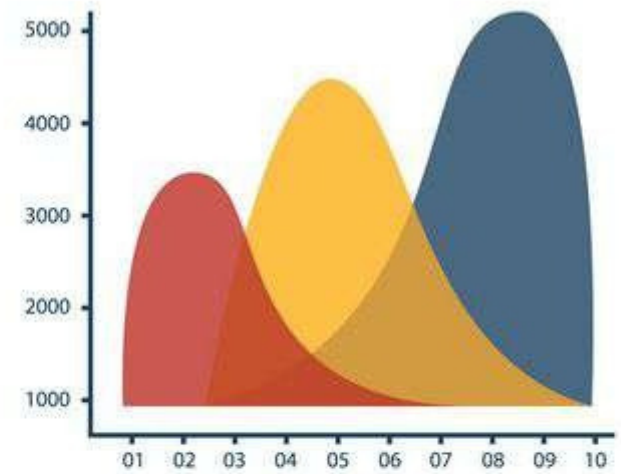
II. REMOVE MISSING VALUES

Color	d1	d2	d3
Red	1	0	0
Green	0	1	0
Blue	0	0	1

IV. ENCODING

4

Exploratory Data Analysis



DATA VISUALIZATION

Univariate Analysis

Bivariate Analysis

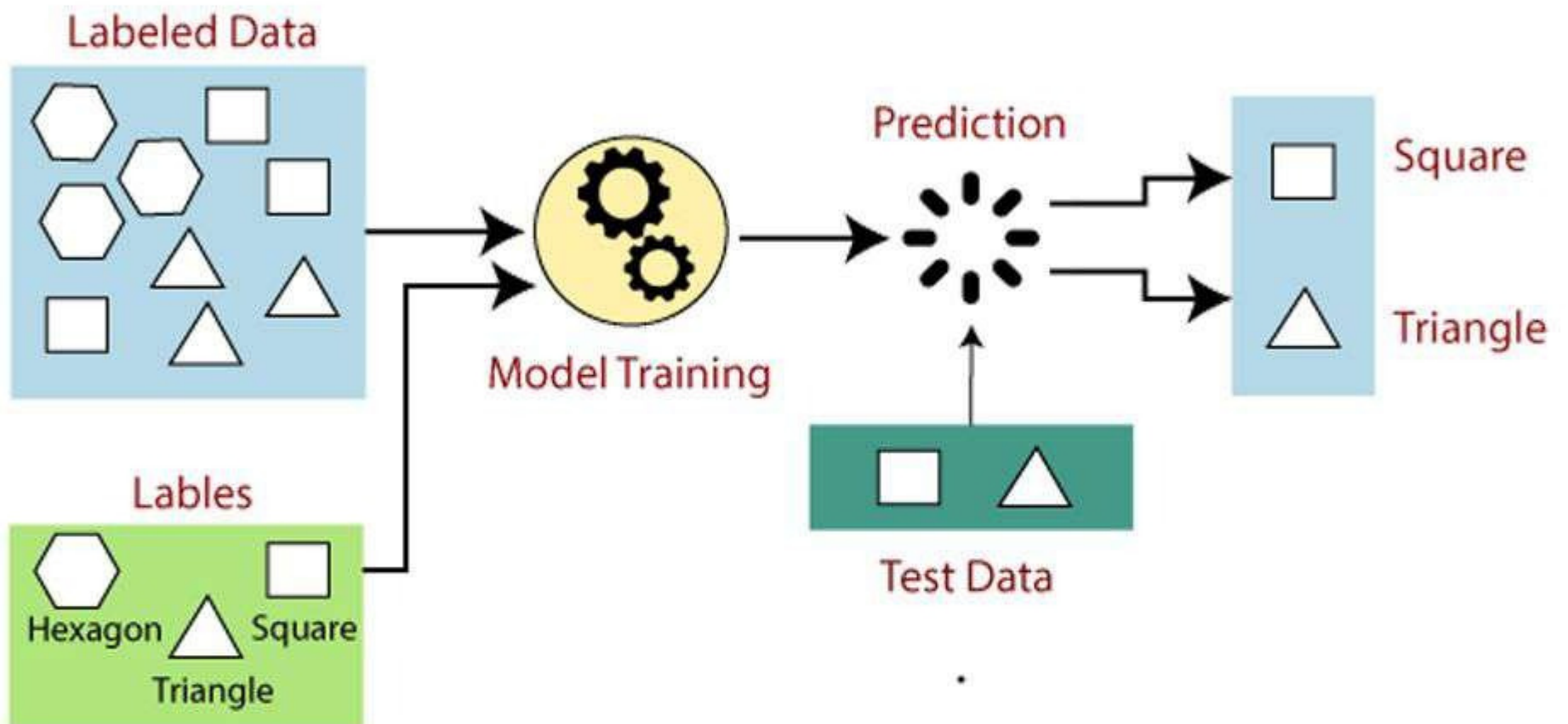
5

Feature Engineering and Selection

	A	B	C	D
0	1	4	0	1
1	2	5	0	1
2	4	6	0	1
3			0	1
4	7	8	0	1

REMOVING FEATURES
&
SELECTING FEATURES

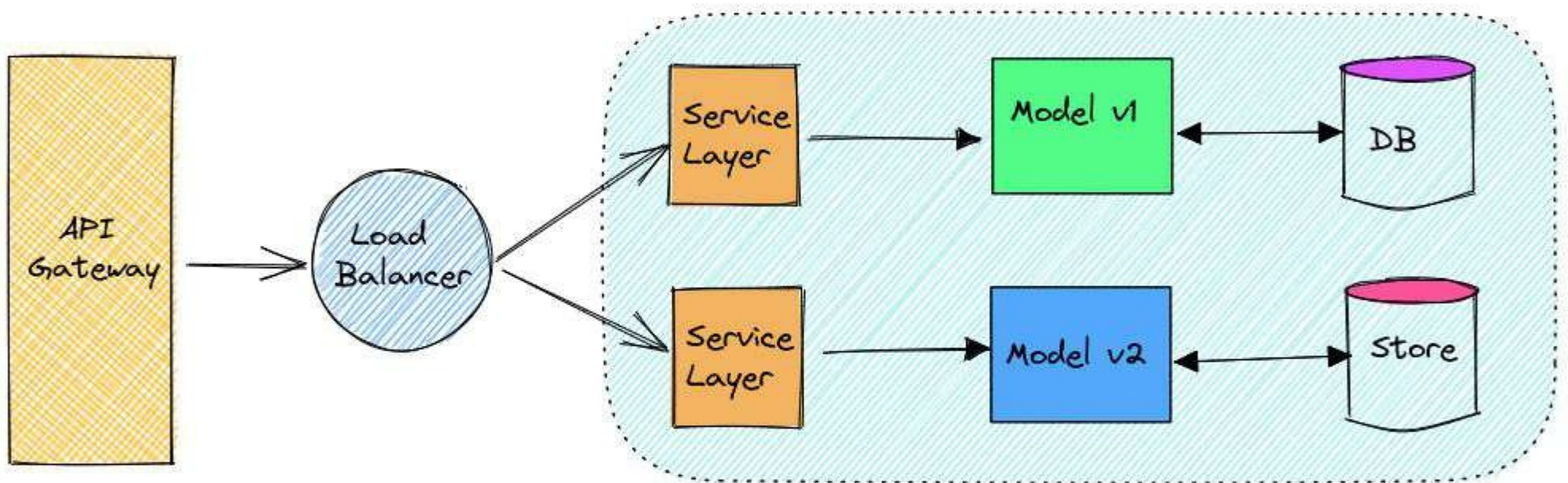
Model Training, Evaluation and Selection



- I. TRAIN VARIOUS MODELS
- II. EVALUATE: PERFORMANCE MATRICES
- III. TUNE PARAMETERS
- IV. SELECT BEST MODEL

7

Model Deployment



DEPLOY MODEL IN VARIOUS PLATFORM:

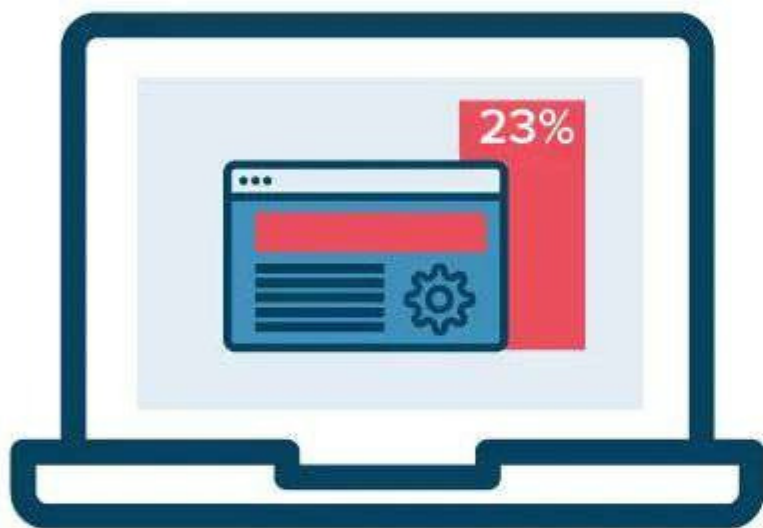
- I. HEROKU
- II. AWS
- III. GCP

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8

Testing

A



CONTROL

B



VARIATION

A/B TESTING

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