Evaluating Model Performance

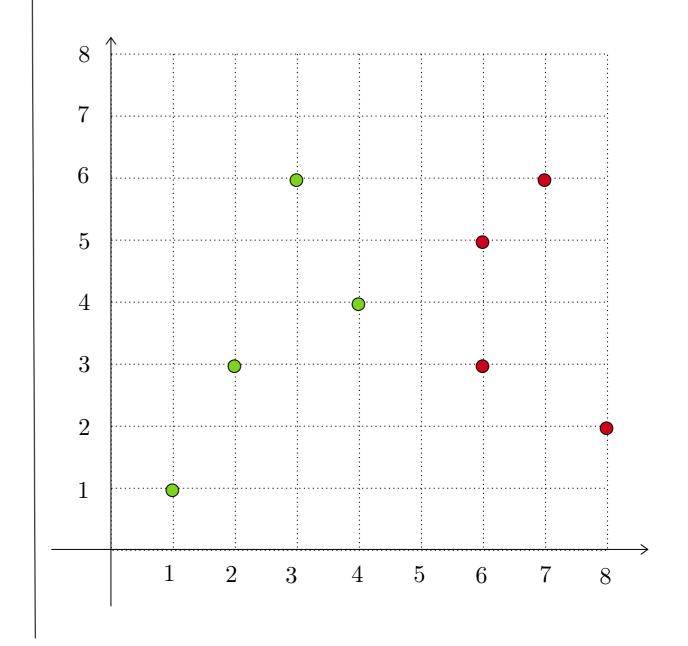
School Connect: Intro to DS & AI

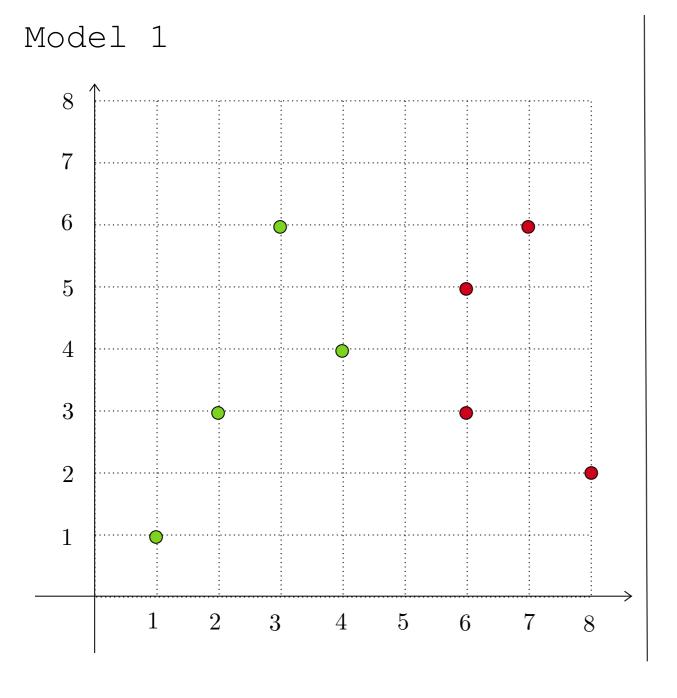
A Aniruddha Indian Institute of Technology, Madras Dataset

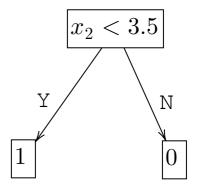
x_1	x_2	y
1	1	1
2	3	1
3	6	1
4	4	1
6	3	0
6	5	0
7	6	0
8	2	0

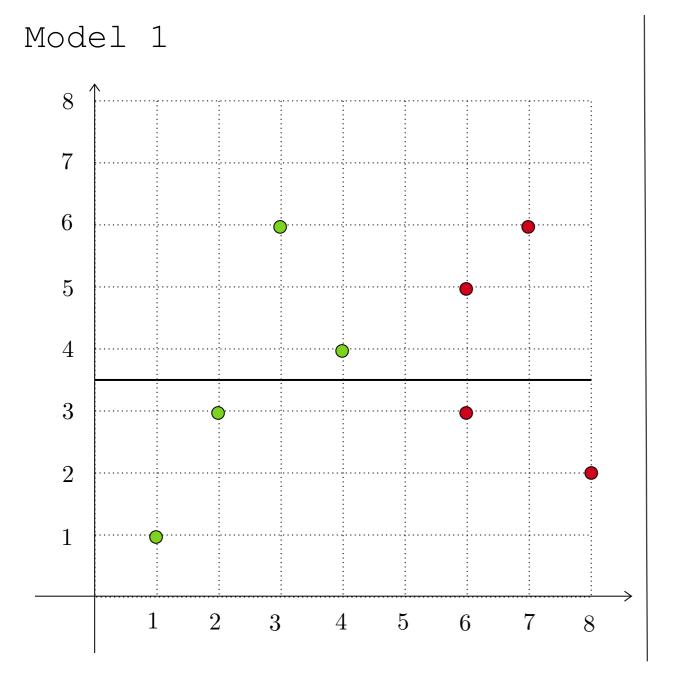
Dataset

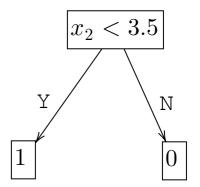
x_1	x_2	y
1	1	1
2	3	1
3	6	1
4	4	1
6	3	0
6	5	0
7	6	0
8	2	0

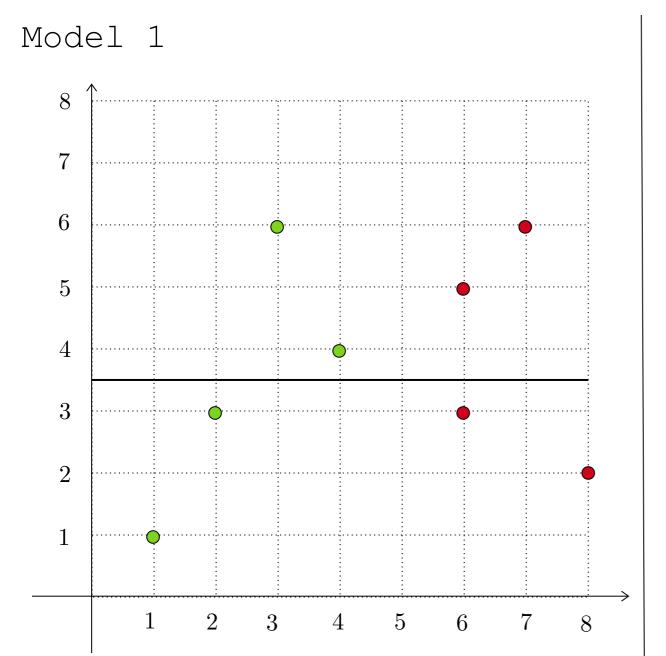


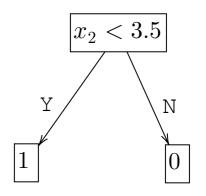




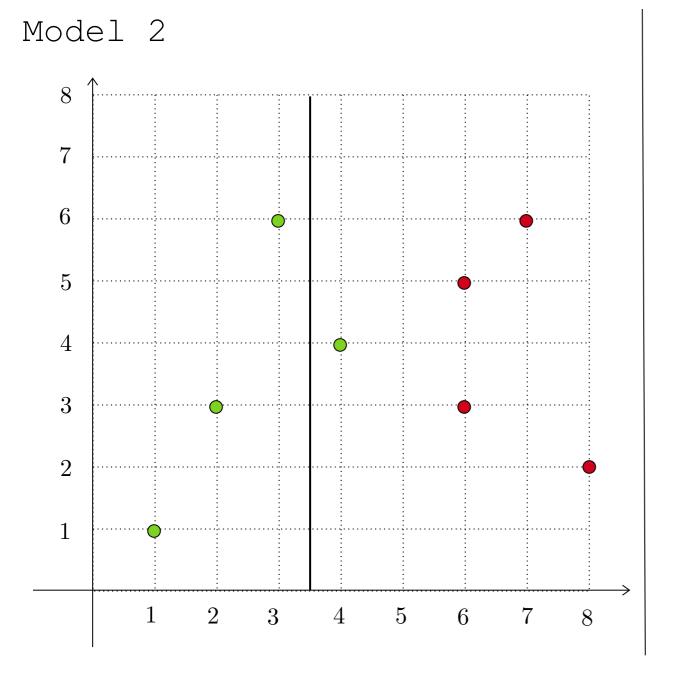


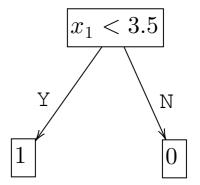




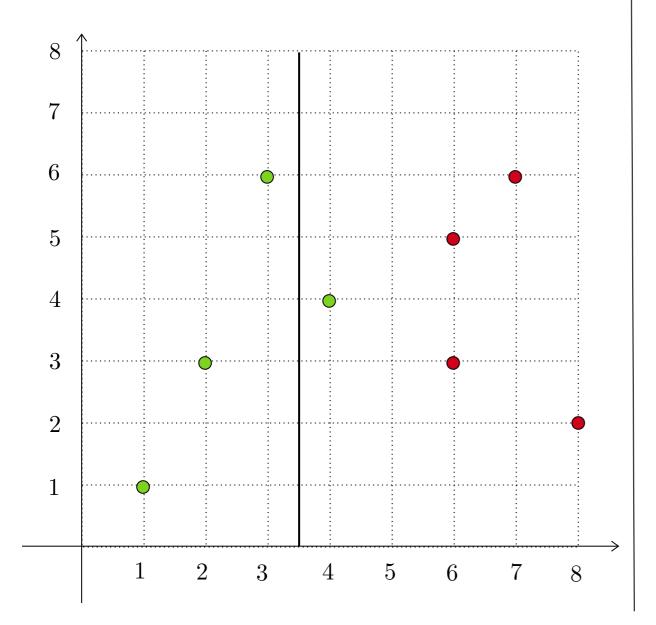


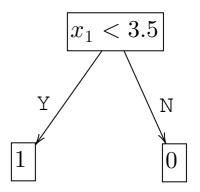
Feature 1	Feature 2	Label	Model 1 Predictions
1	1	1	1
2	3	1	1
3	6	1	0
4	4	1	0
6	3	0	1
6	5	0	0
7	6	0	0
8	2	0	1



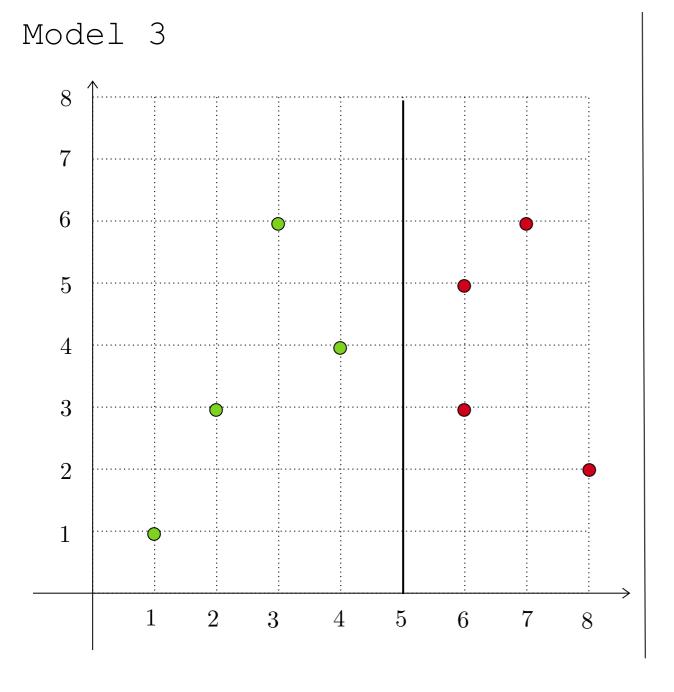


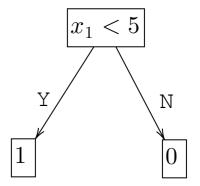




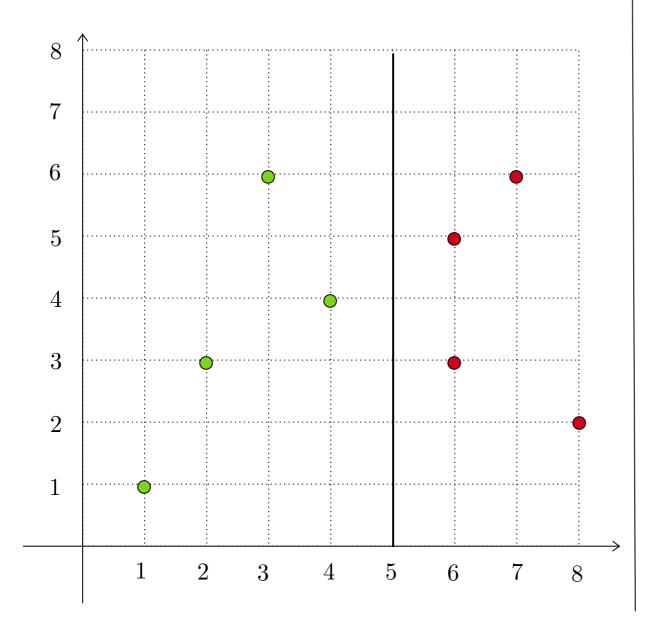


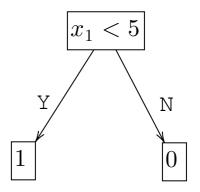
Feature 1	Feature 2	Label	Model 2 Predictions
1	1	1	1
1	1	1	1
2	3	1	1
3	3 6		1
4	4	1	0
6	3	0	0
6	6 5		0
7	6	0	0
8	2	0	0





Model 3





Feature 1	Feature 2	Label	Model 3 Predictions
1	1	1	1
2	3	1	1
3	6	1	1
4	4	1	1
6	3	0	0
6	5	0	0
7	6	0	0
8	2	0	0

Ecoturo 1	Feature 2	Tabal	Model 1	Model 2	Model 3
reacule 1	reature 2	тарет	Predictions	Predictions	Predictions
1	1	1	1	1	1
2	3	1	1	1	1
3	6	1	0	1	1
4	4	1	0	0	1
6	3	0	1	0	0
6	5	0	0	0	0
7	6	0	0	0	0
8	2	0	1	0	0

Feature 1	Feature 2	Label	Model 1	Model 2 Predictions	
			Fredrections	Fredrections	FIEGICTIONS
1	1	1	1	1	1
2	3	1	1	1	1
3	6	1	0	1	1
4	4	1	0	0	1
6	3	0	1	0	0
6	5	0	0	0	0
7	6	0	0	0	0
8	2	0	1	0	0

$$\mbox{Accuracy} = \frac{\mbox{No of correct predictions}}{\mbox{Total no of predictions}}$$

How good is my model?

Footure 1	Feature 2	Tabal	Model 1	Model 2	Model 3
reacure i	reature 2	Taber	Predictions	Predictions	Predictions
1	1	1	1	1	1
2	3	1	1	1	1
3	6	1	0	1	1
4	4	1	0	0	1
6	3	0	1	0	0
6	5	0	0	0	0
7	6	0	0	0	0
8	2	0	1	0	0

Accuracy(Model 1)
$$=\frac{4}{8}$$
 $=0.5$

Ecoturo 1	Feature 2	Tabal	Model 1	Model 2	Model 3
reature i	reature 2	Laber	Predictions	Predictions	Predictions
1	1	1	1	1	1
2	3	1	1	1	1
3	6	1	0	1	1
4	4	1	0	0	1
6	3	0	1	0	0
6	5	0	0	0	0
7	6	0	0	0	0
8	2	0	1	0	0

Feature 1	Feature 2	T.ahel	Model 1	Model 2	Model 3
	reacure 2	Парст	Predictions	Predictions	Predictions
1	1	1	1	1	1
2	3	1	1	1	1
3	6	1	0	1	1
4	4	1	0	0	1
6	3	0	1	0	0
6	5	0	0	0	0
7	6	0	0	0	0
8	2	0	1	0	0

Thank you