

## VLAB ASSIGNMENT DSBDA

Pattern Recognition : Experiment 5 - Bayesian Classification

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https://cse20-iitb.vlabs.ac.in/exp/bayesian-classification/procedure.html

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Stage 1:

1. Launch the experiment and observe the decision boundaries.

Stage 2:

1. Repeat the above procedure and observe the change in the decision boundaries.

Stage 3:

Generate the following types of shapes:

1. Straight line
2. Parallel Straight lines
3. Concentric circles
4. Parabola
5. Hyperbola
6. Four Quadrants

Explain why these shapes are generated in each case.

Pattern Recognition : Experiment 5 - Bayesian Classification

Load Custom Datasets

Dataset T2 Load

Mark Points

Class 1 Class 2

Mark Mark All Clear

Generate Random Values

Class 1 Class 2

Mean 0.0 0.0 0.0 0.0

Co-Variance 1.0 0.5 1.0 -0.5

Generate

Resize Axes

Y-axis

X-axis

Class 1 • Class 2

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Load Custom Datasets

Dataset T1 Load

Mark Points

Class 1 Class 2

Mark Mark All Clear

Generate Random Values

Class 1 Class 2

Mean 1.0 0.0 0.0 0.0

Co-Variance 1.0 0.0 1.0 0.0

Generate

Resize Axes

Y-axis

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1. Launch the experiment and observe the decision boundaries.

2. Note down your observations.

Stage 2:

1. Repeat the above procedure.

2. Observe the change in the decision boundaries.

3. Note down your observations.

Stage 3:

Generate the following types of decision boundaries:

1. Straight line

2. Parallel Straight lines

3. Concentric circles

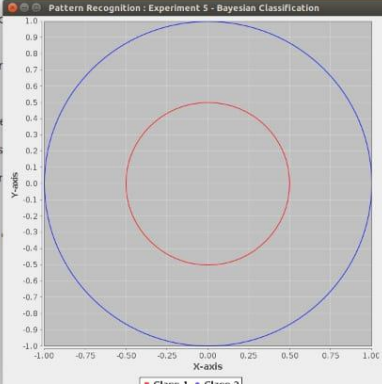
4. Parabola

5. Hyperbola

6. Four Quadrants

Explain why these shapes are generated in each case.

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Load Custom Datasets

Dataset T3 Load

Mark Points

Class 1 Class 2

Mark Mark All Clear

Generate Random Values

Class 1 Class 2

Mean 0.0 0.0 0.0 0.0

Co-Variance 1.0 0.0 2.0 0.0

Generate 0.0 1.0 0.0 2.0

Resize Axes

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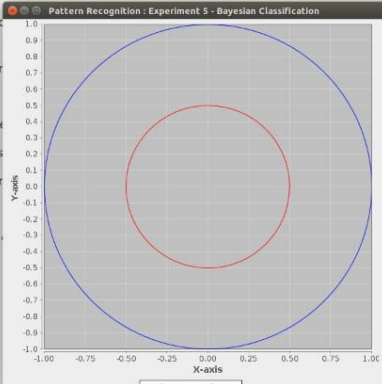
4. Parabola

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Explain why these shapes are generated in each case.

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Load Custom Datasets

Dataset T3 Load

Mark Points

Class 1 Class 2

Mark Mark All Clear

Generate Random Values

Class 1 Class 2

Mean 0.0 0.0 0.0 0.0

Co-Variance 1.0 0.0 2.0 0.0

Generate 0.0 1.0 0.0 2.0

Resize Axes

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