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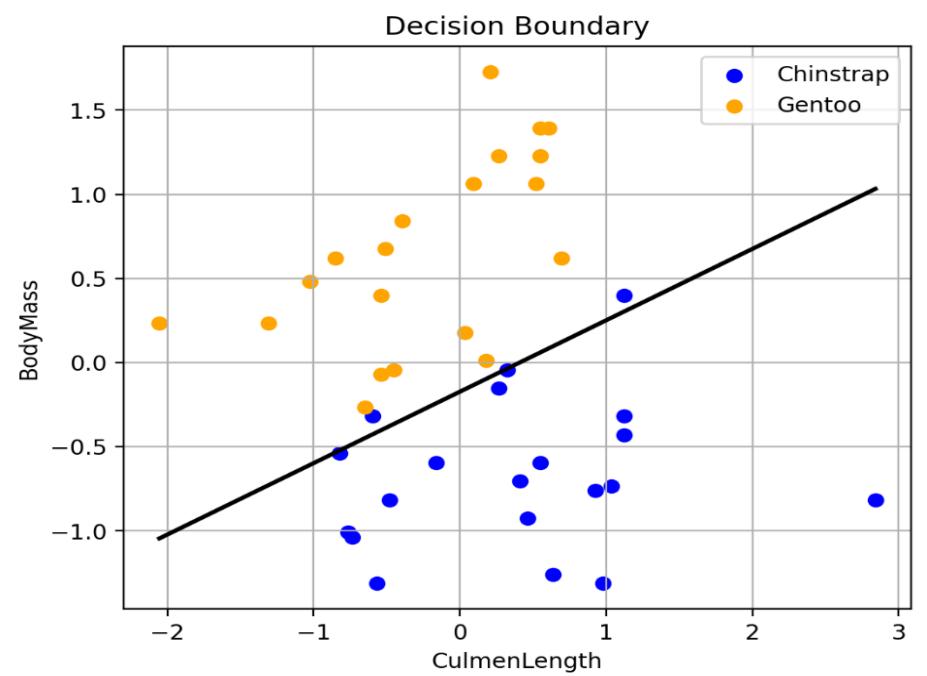
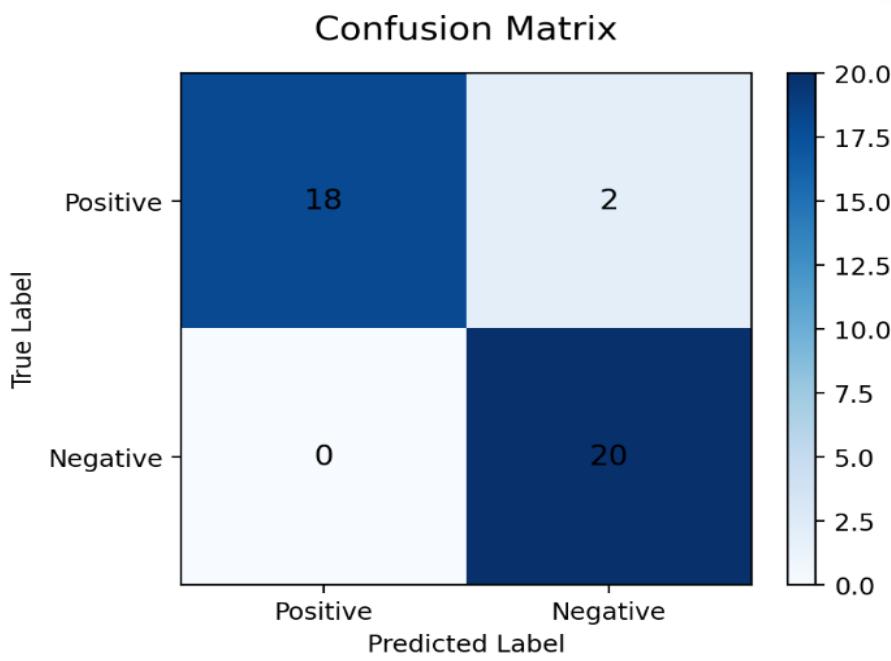
# Neural Networks and Deep

## Learning Task 1

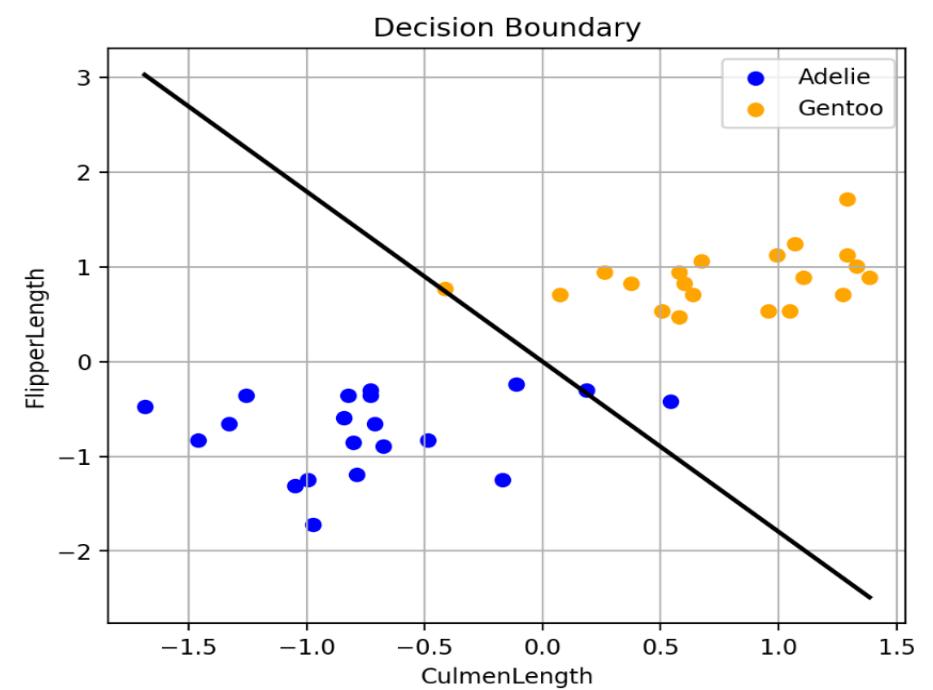
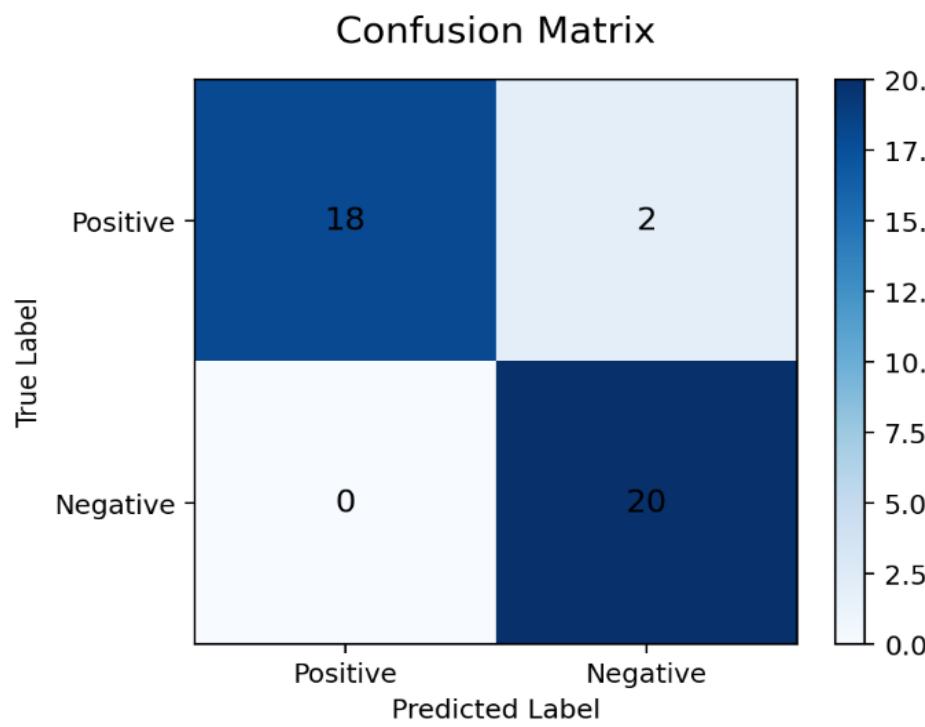
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SC – Level 4	2022170462	ندى ايمن محمد اسماعيل
SC – Level 4	2022170336	مازن علاء سعيد علي
SC – Level 4	2022170453	مي عز الدين سعد حنفي
SC – Level 4	2022170528	يوسف محمود ابراهيم ابراهيم
SC – Level 4	2022170337	مازن محمد عبدالعال محمد
SC – Level 4	2022170618	محمد محمود عبد التواب

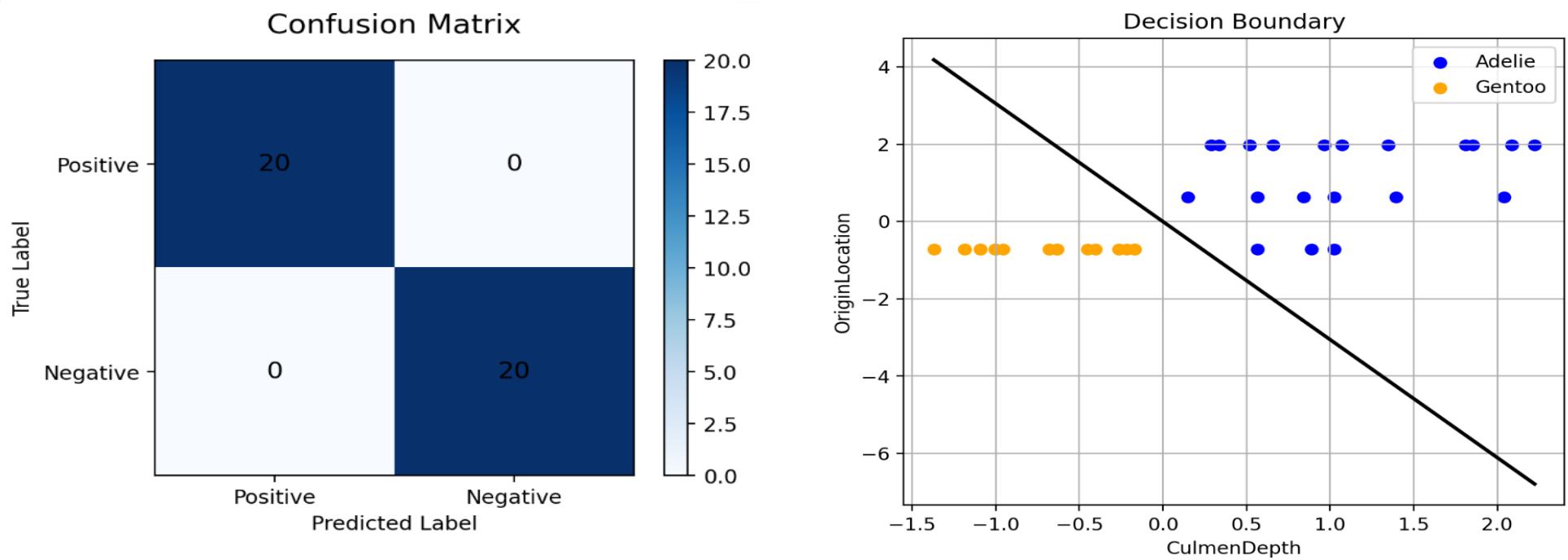
<b>Algorithm</b>	Perceptron
<b>Features</b>	CulmenLength – BodyMass
<b>Classes</b>	Chinstrap – Gentoo
<b>Learning Rate</b>	0.0001
<b>Epochs</b>	100
<b>MSE Threshold</b>	0.00
<b>Bias</b>	Yes
<b>Accuracy</b>	95 %



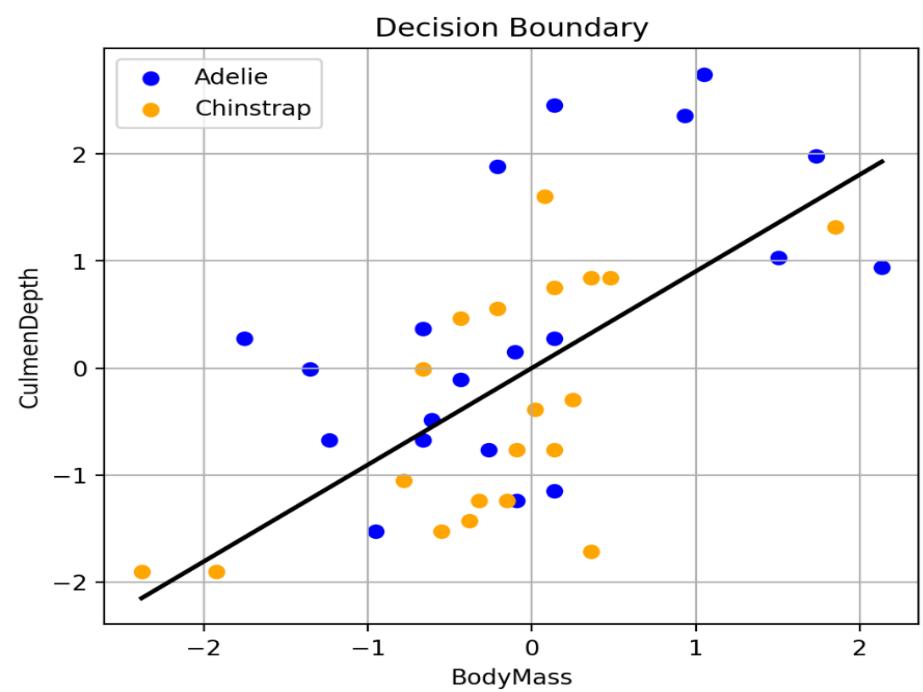
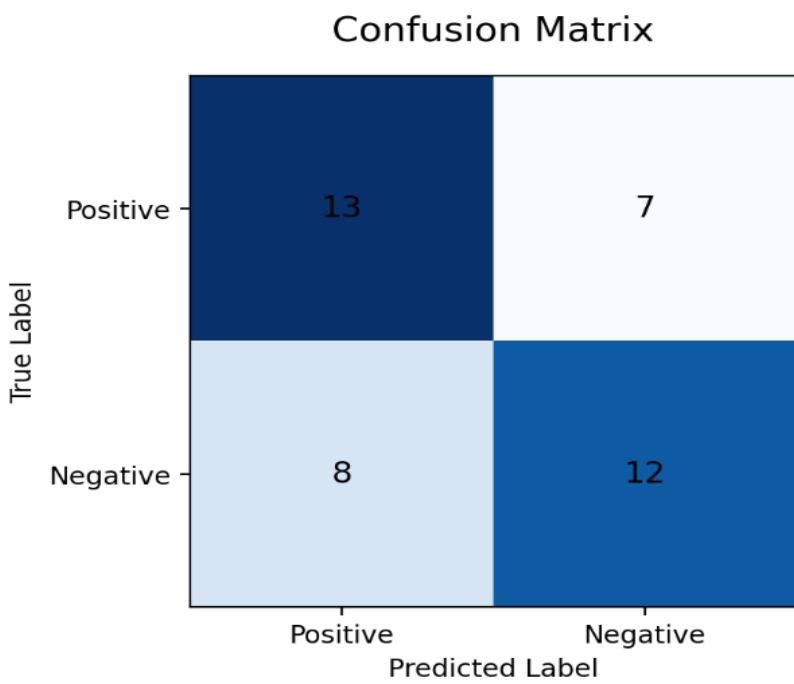
<b>Algorithm</b>	Perceptron
<b>Features</b>	CulmenLength – FlipperLength
<b>Classes</b>	Adelie – Gentoo
<b>Learning Rate</b>	0.0100
<b>Epochs</b>	100
<b>MSE Threshold</b>	0.00
<b>Bias</b>	No
<b>Accuracy</b>	95 %



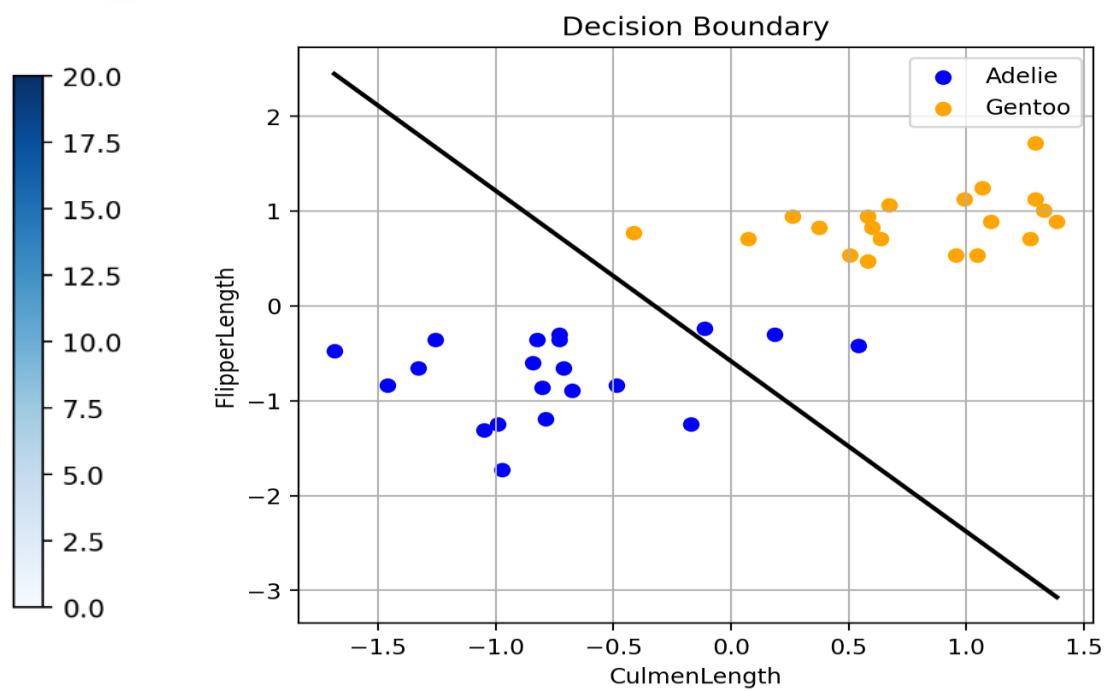
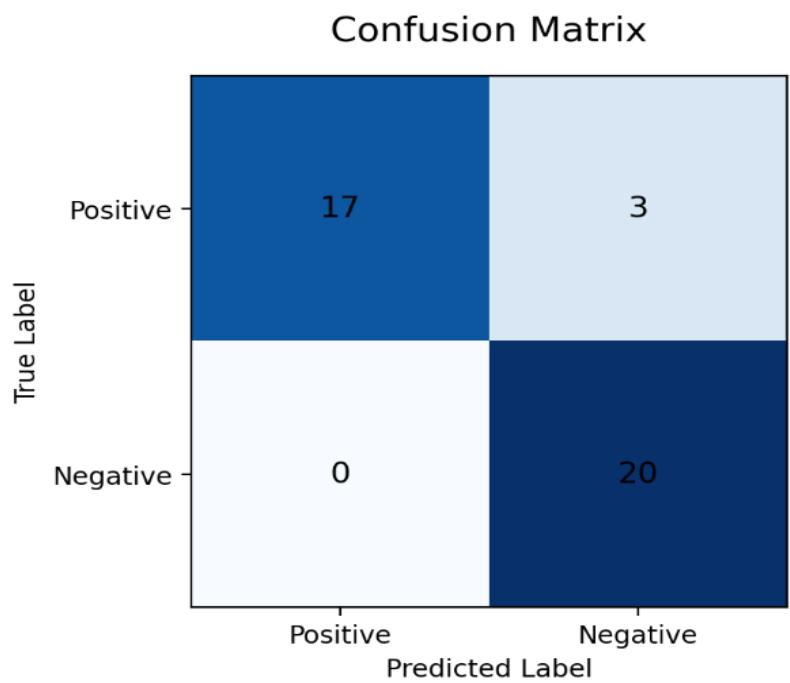
<b>Algorithm</b>	Perceptron
<b>Features</b>	CulmenDepth – OriginLocation
<b>Classes</b>	Adelie – Gentoo
<b>Learning Rate</b>	0.0100
<b>Epochs</b>	100
<b>MSE Threshold</b>	0.00
<b>Bias</b>	No
<b>Accuracy</b>	100%



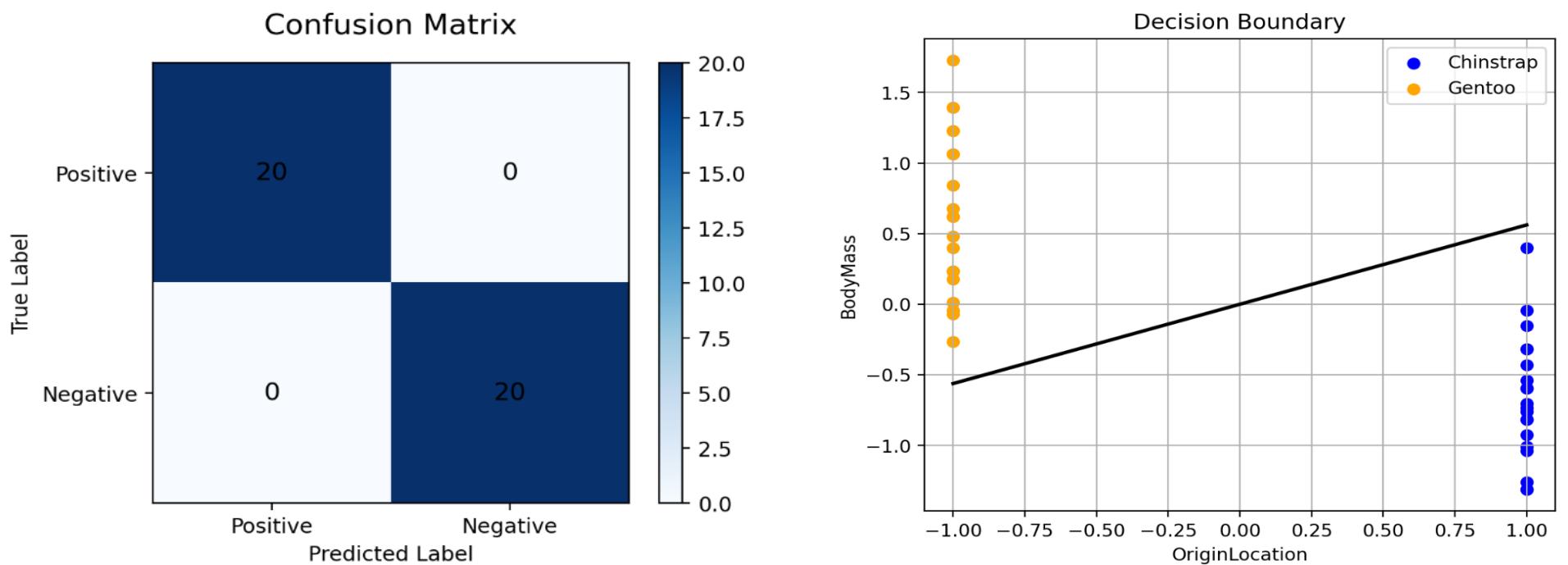
<b>Algorithm</b>	Perceptron
<b>Features</b>	CulmenDepth – BodyMass
<b>Classes</b>	Chinstrap – Adelie
<b>Learning Rate</b>	0.0010
<b>Epochs</b>	100
<b>MSE Threshold</b>	0.00
<b>Bias</b>	Yes
<b>Accuracy</b>	62.50%



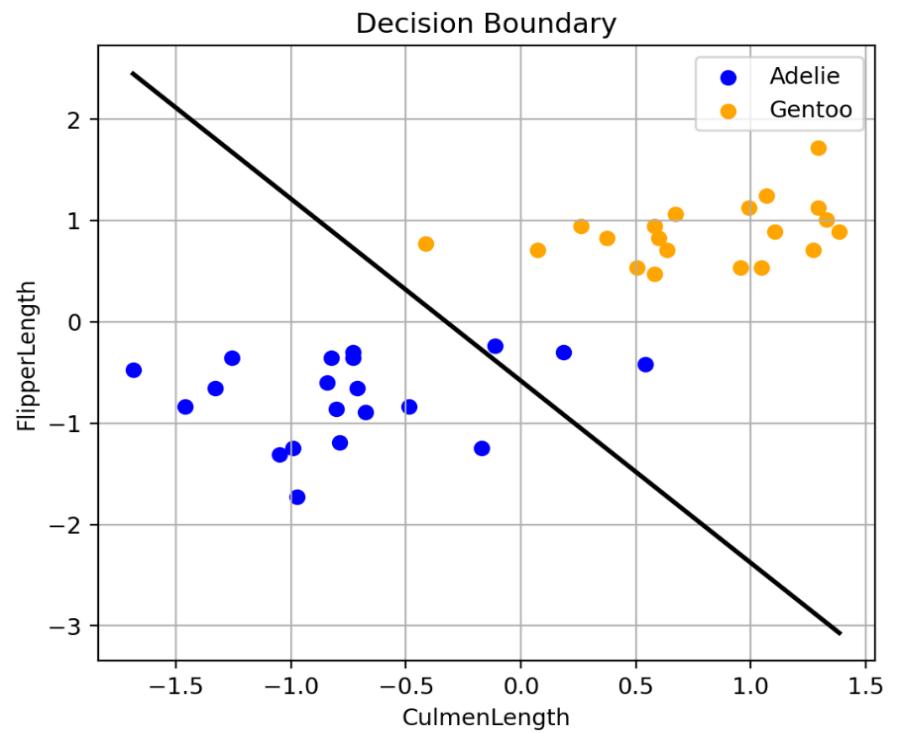
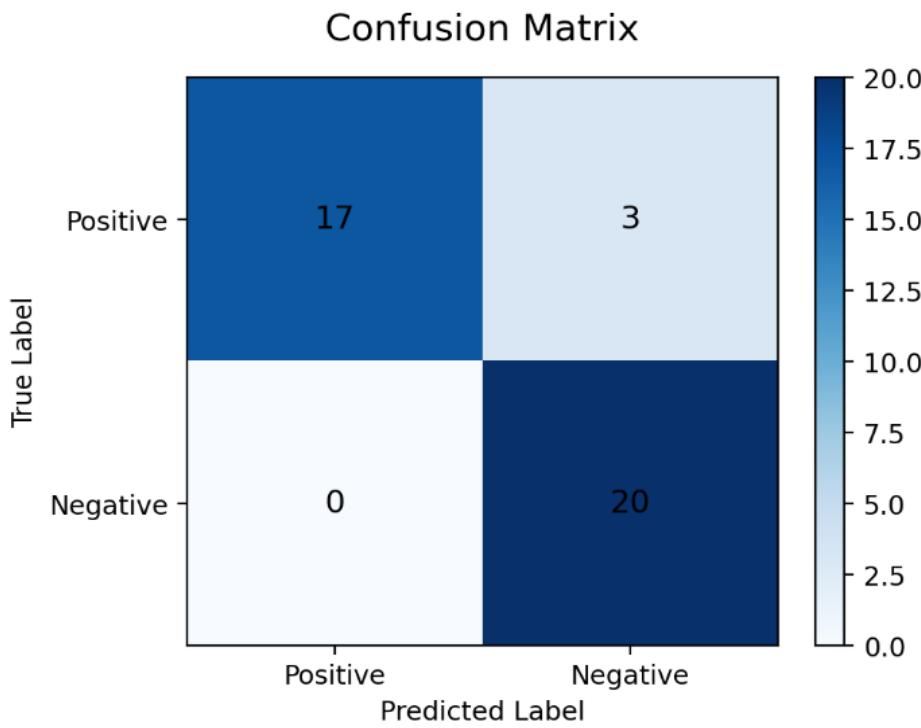
<b>Algorithm</b>	Perceptron
<b>Features</b>	CulmenLength – FlipperLength
<b>Classes</b>	Adelie – Gentoo
<b>Learning Rate</b>	0.0001
<b>Epochs</b>	100
<b>MSE Threshold</b>	0.00
<b>Bias</b>	Yes
<b>Accuracy</b>	92.50%



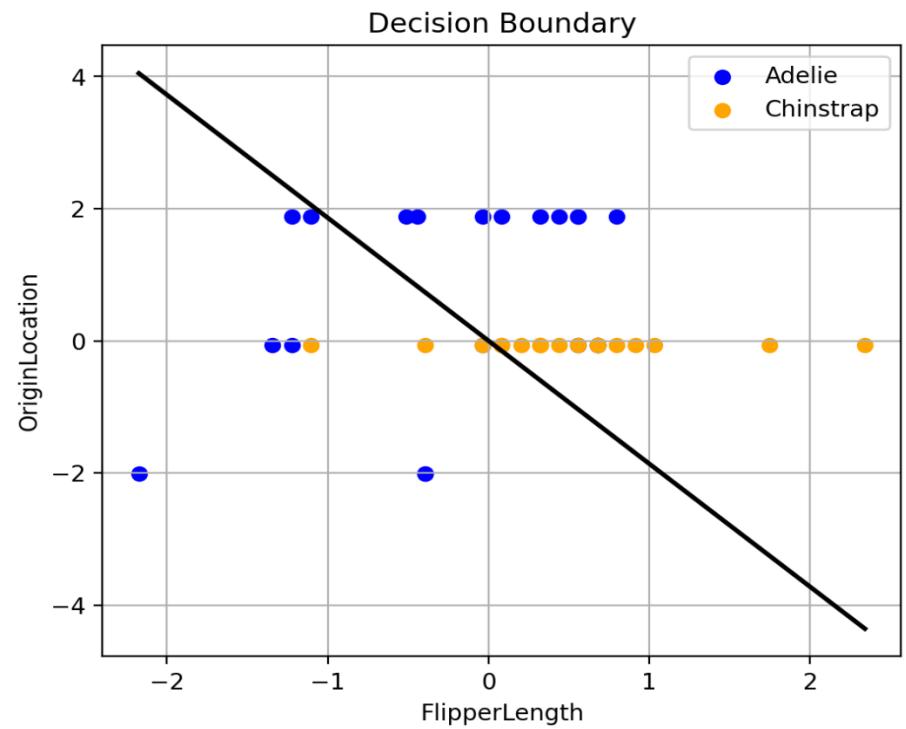
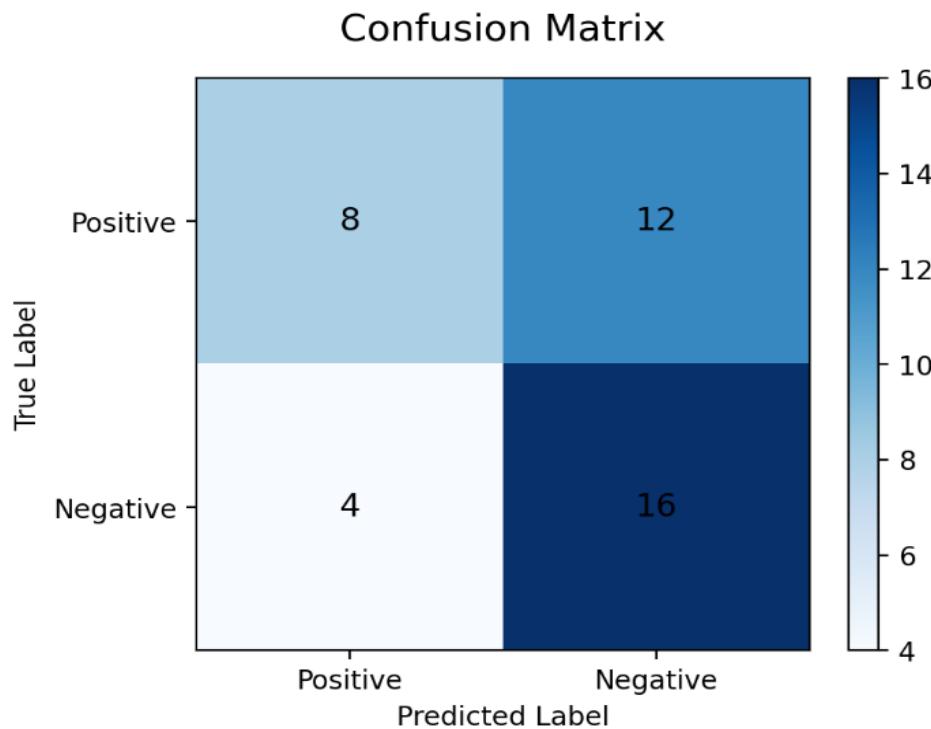
<b>Algorithm</b>	Adaline
<b>Features</b>	OriginLocation – BodyMass
<b>Classes</b>	Chinstrap – Gentoo
<b>Learning Rate</b>	0.0001
<b>Epochs</b>	100
<b>MSE Threshold</b>	0.01
<b>Bias</b>	No
<b>Accuracy</b>	100.00%



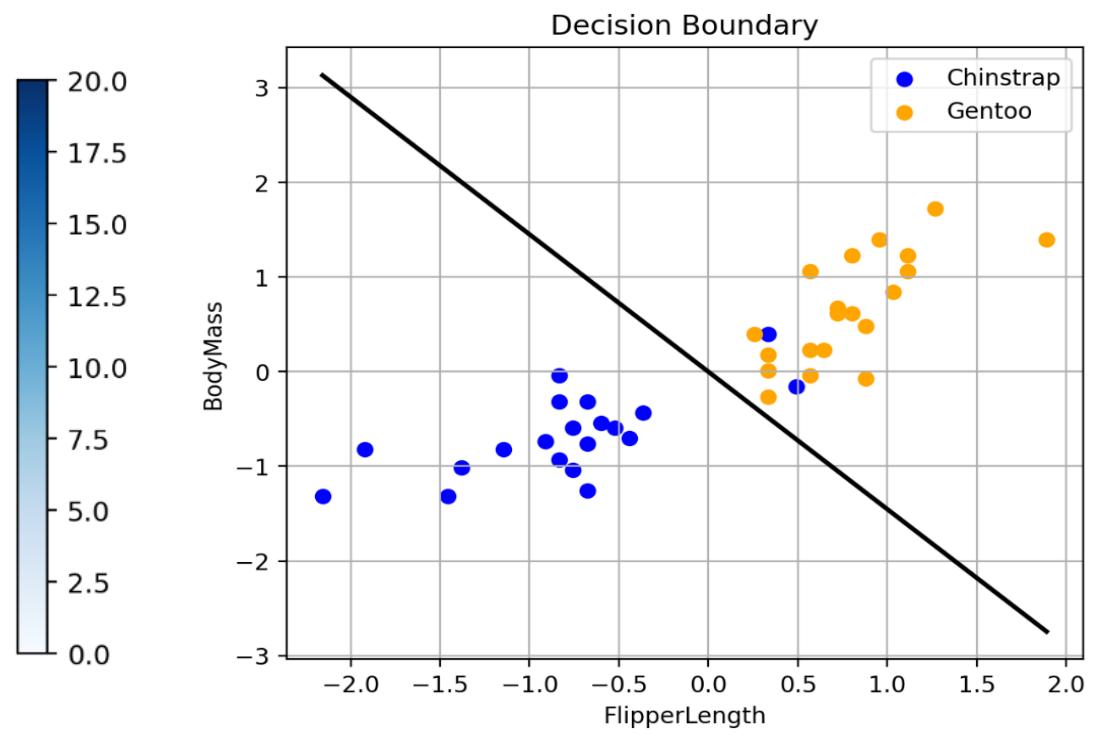
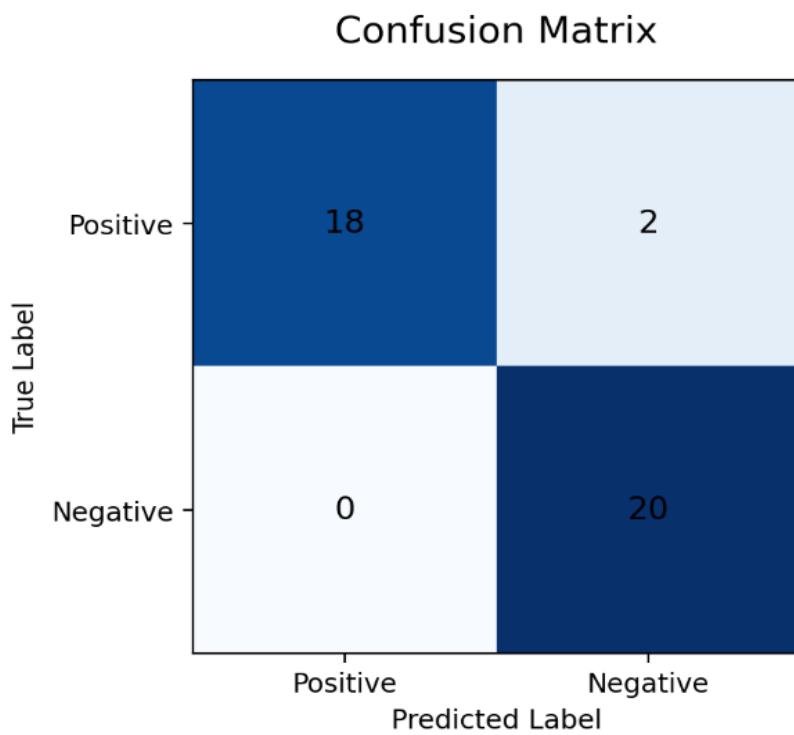
<b>Algorithm</b>	Adaline
<b>Features</b>	CulmenLength – FlipperLength
<b>Classes</b>	Adelie – Gentoo
<b>Learning Rate</b>	0.0001
<b>Epochs</b>	1000
<b>MSE Threshold</b>	0.01
<b>Bias</b>	Yes
<b>Accuracy</b>	92.50%



<b>Algorithm</b>	Adaline
<b>Features</b>	FlipperLength – OriginLocation
<b>Classes</b>	Chinstrap – Adelie
<b>Learning Rate</b>	0.0001
<b>Epochs</b>	1000
<b>MSE Threshold</b>	0.03
<b>Bias</b>	No
<b>Accuracy</b>	60.00%



<b>Algorithm</b>	Adaline
<b>Features</b>	FlipperLength – BodyMass
<b>Classes</b>	Chinstrap – Gentoo
<b>Learning Rate</b>	0.0001
<b>Epochs</b>	1000
<b>MSE Threshold</b>	0.05
<b>Bias</b>	Yes
<b>Accuracy</b>	95.00%



<b>Algorithm</b>	Adaline
<b>Features</b>	CulmenLength – FlipperLength
<b>Classes</b>	Chinstrap – Adelie
<b>Learning Rate</b>	0.0100
<b>Epochs</b>	100
<b>MSE Threshold</b>	0.01
<b>Bias</b>	Yes
<b>Accuracy</b>	90.00%

