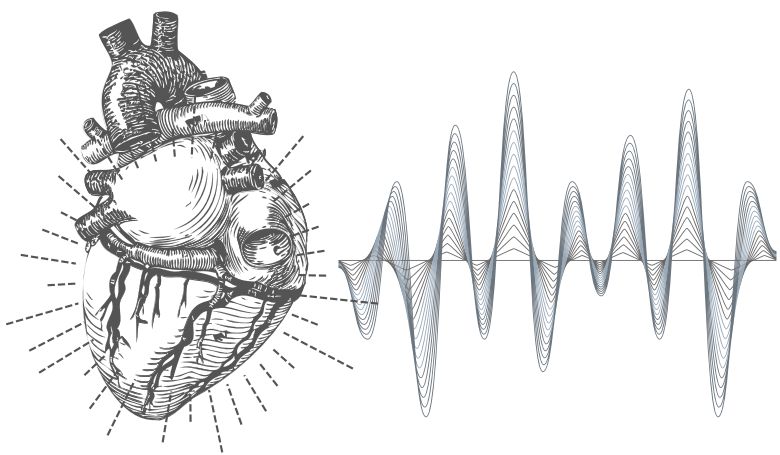




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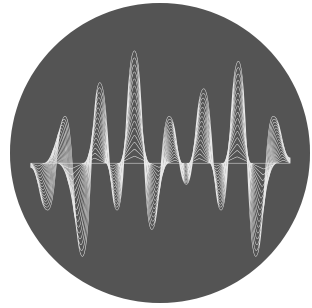
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Heartbeat Sound Signal Classification Using Deep Learning

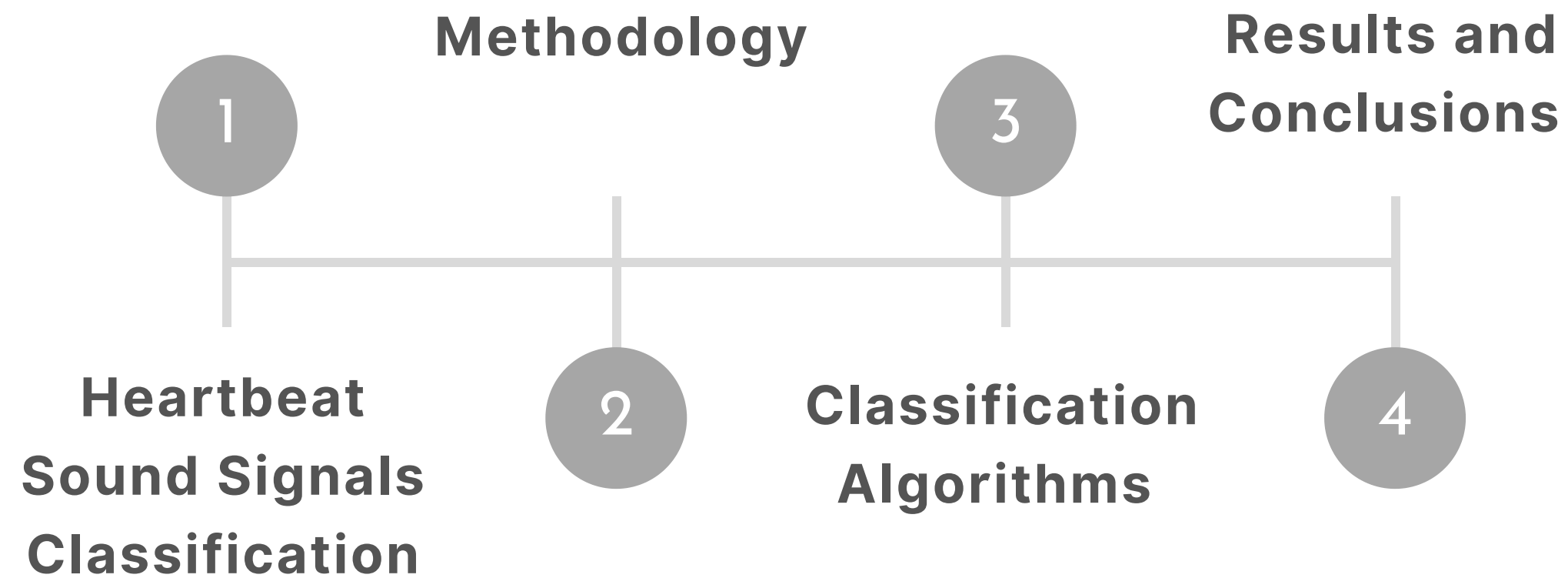
Ali Raza, ArifMehmood, Saleem Ullah , Maqsood Ahmad , Gyu Sang Choi, and
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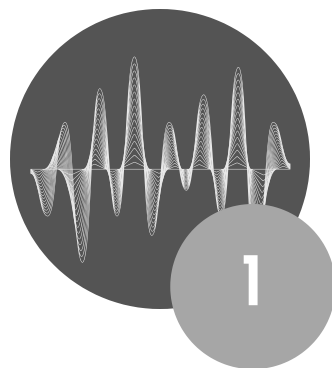
Received: 4 October 2019; Accepted: 31 October 2019; Published: 5 November 2019

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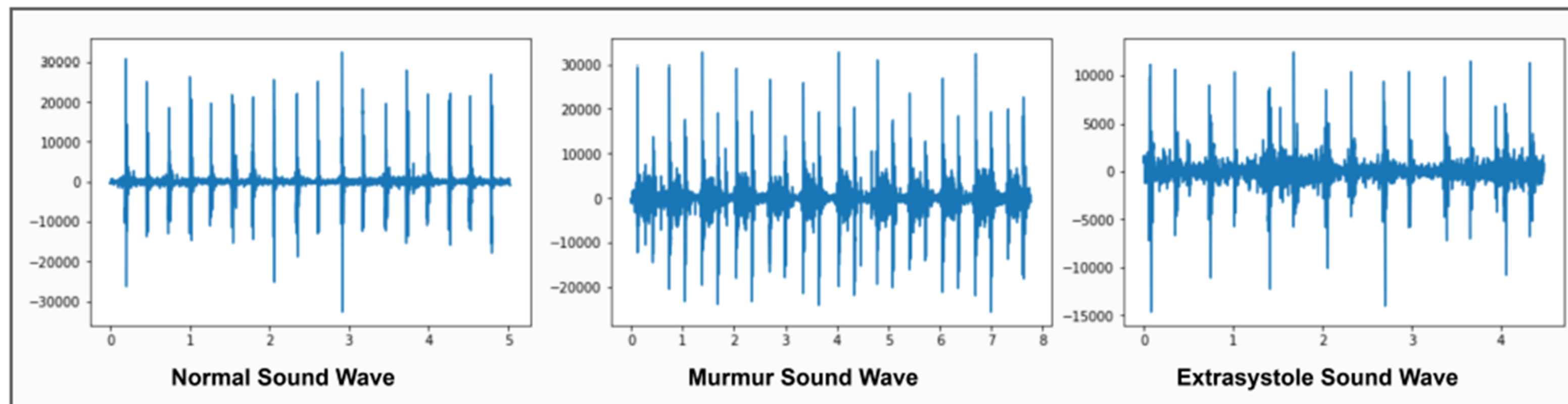


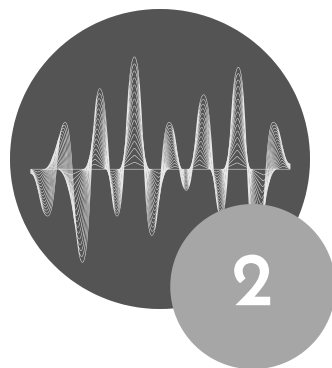
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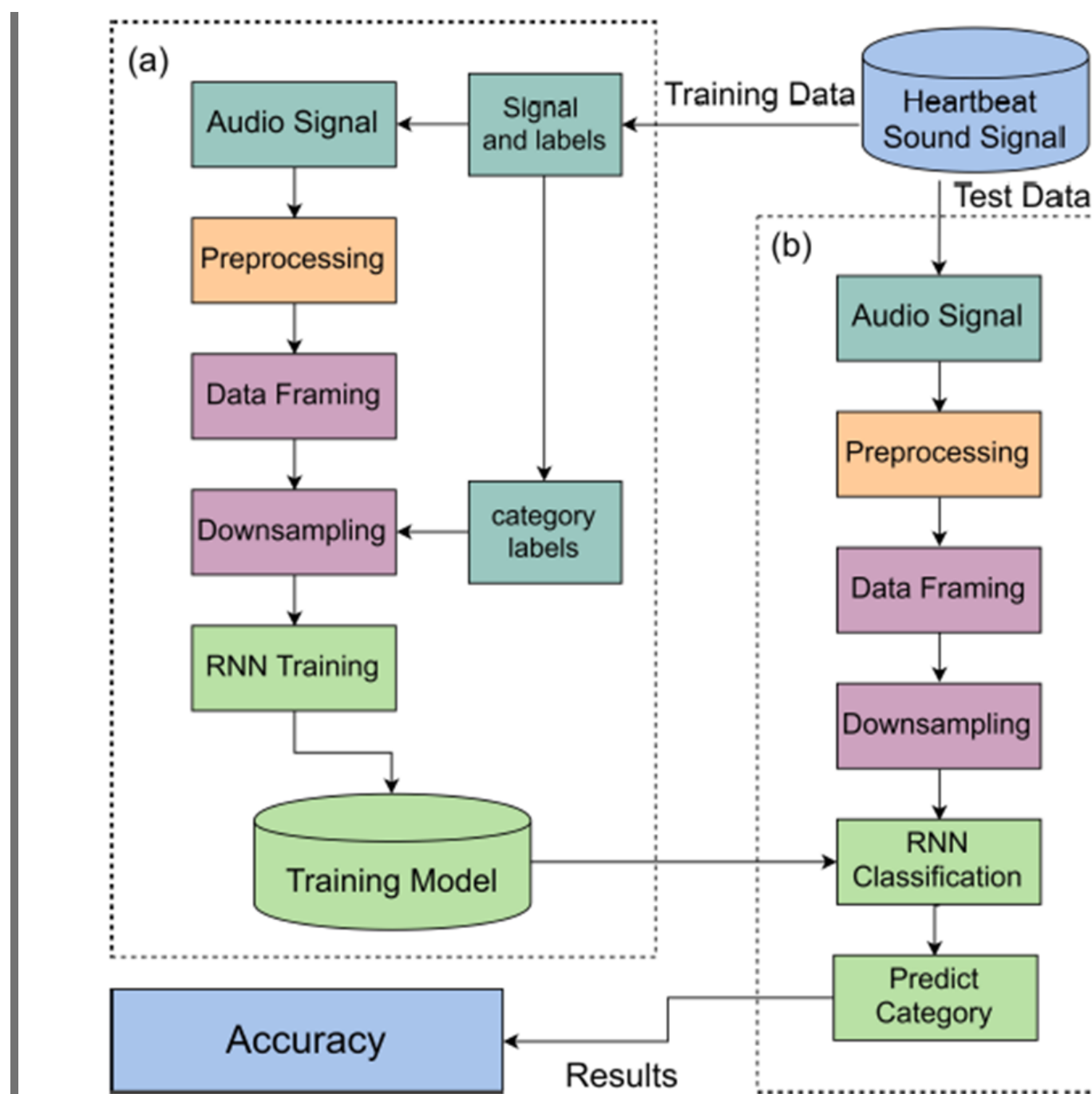


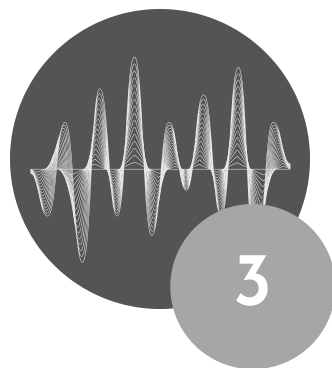
Heartbeat Sound Signals Classification



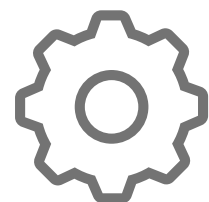


Methodology



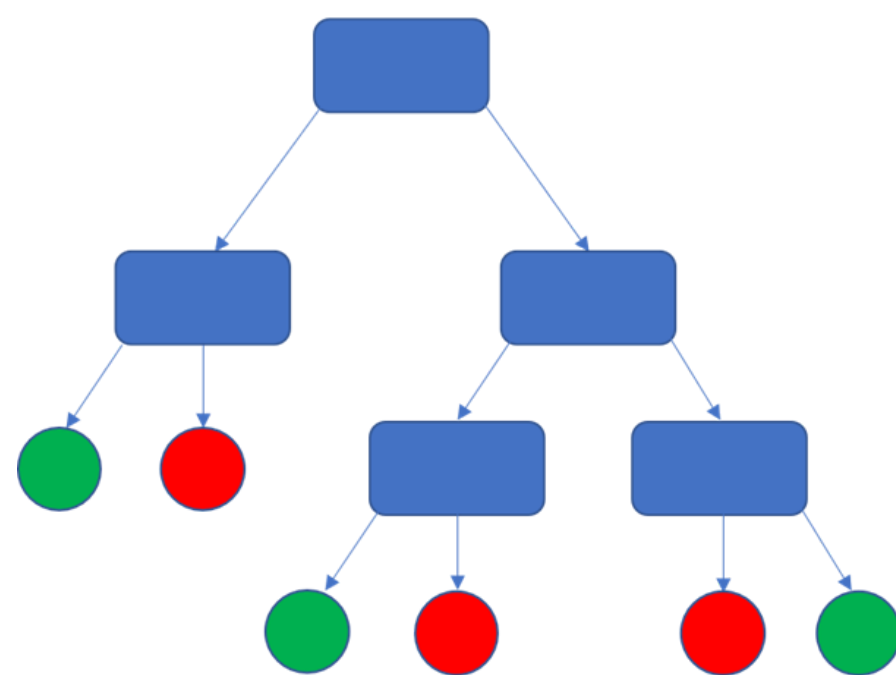


Classification Algorithms

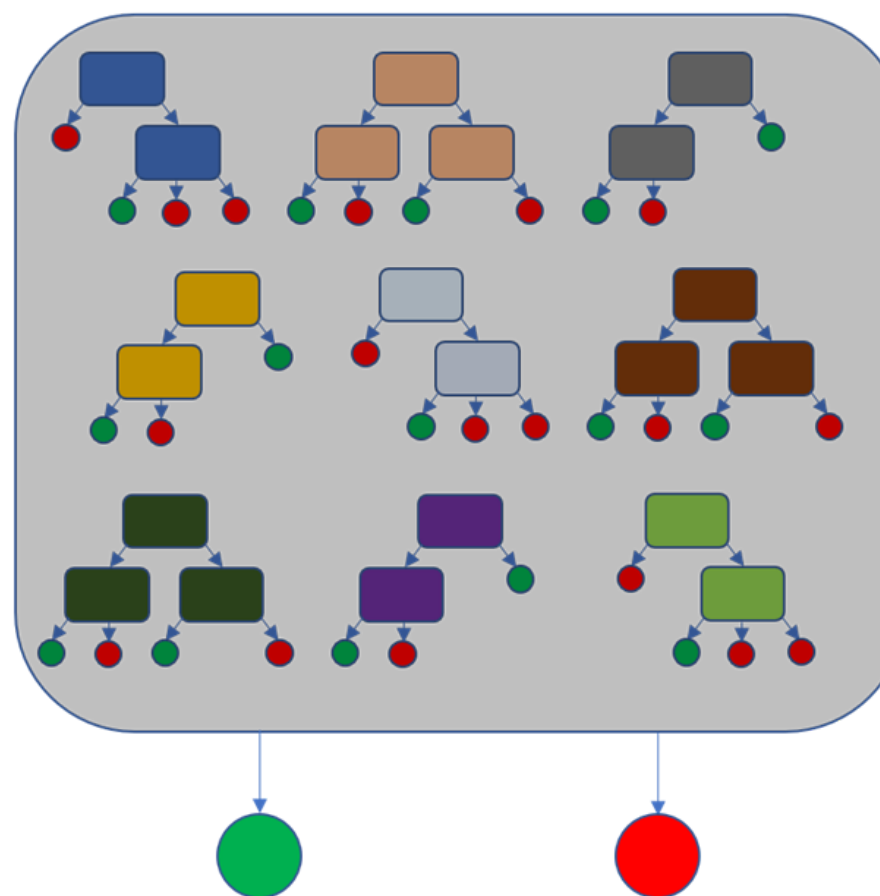


Decision Tree

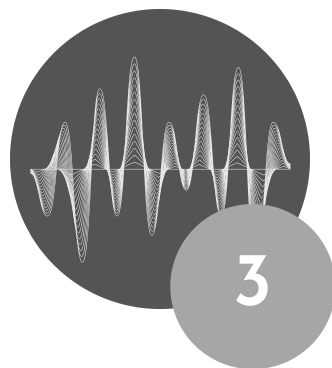
Random Forest (Machine Learning)



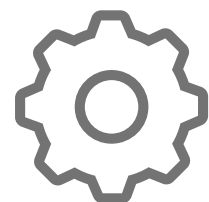
Decision Tree



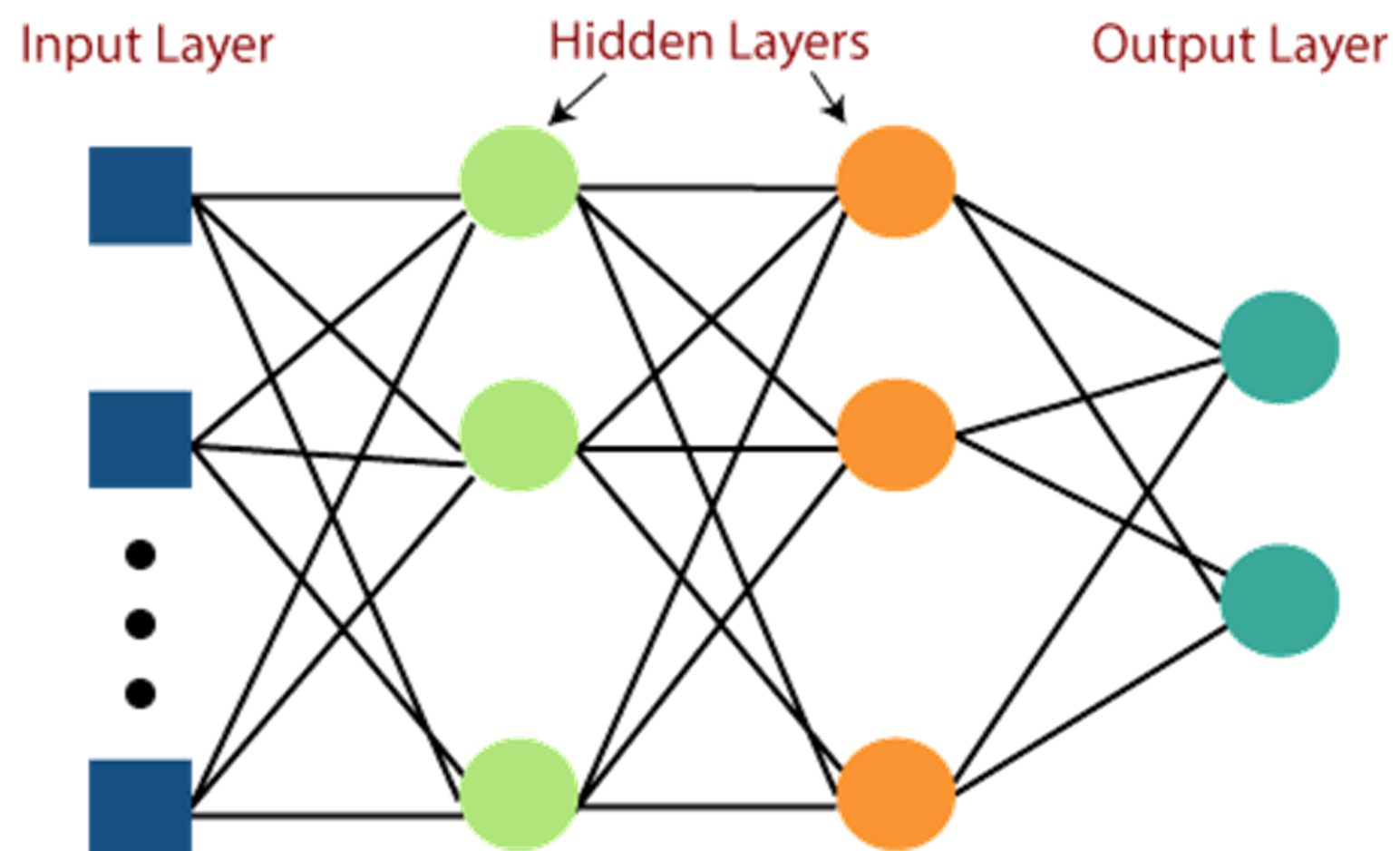
Random Forest

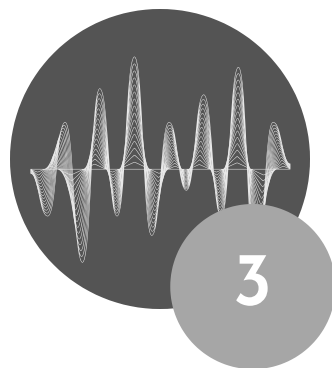


Classification Algorithms

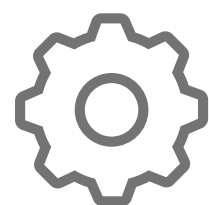


Multi – Layer Perceptron (Deep Learning)

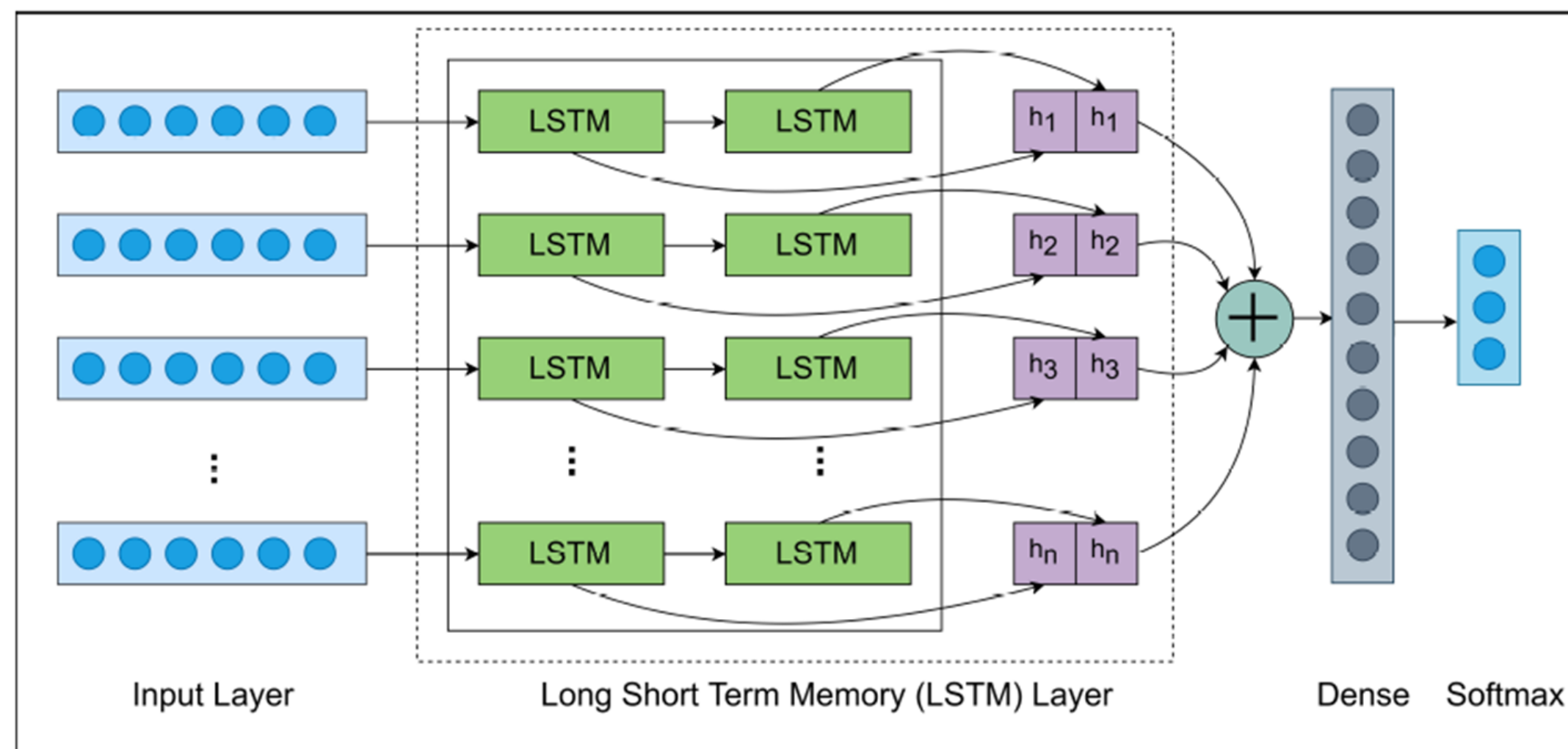


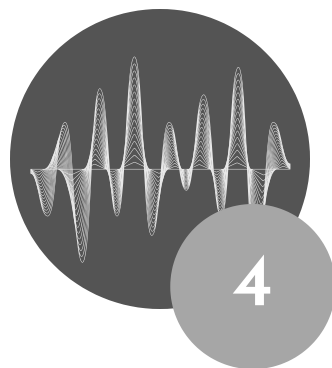


Classification Algorithms



Recurrent Neural Network (Deep Learning)

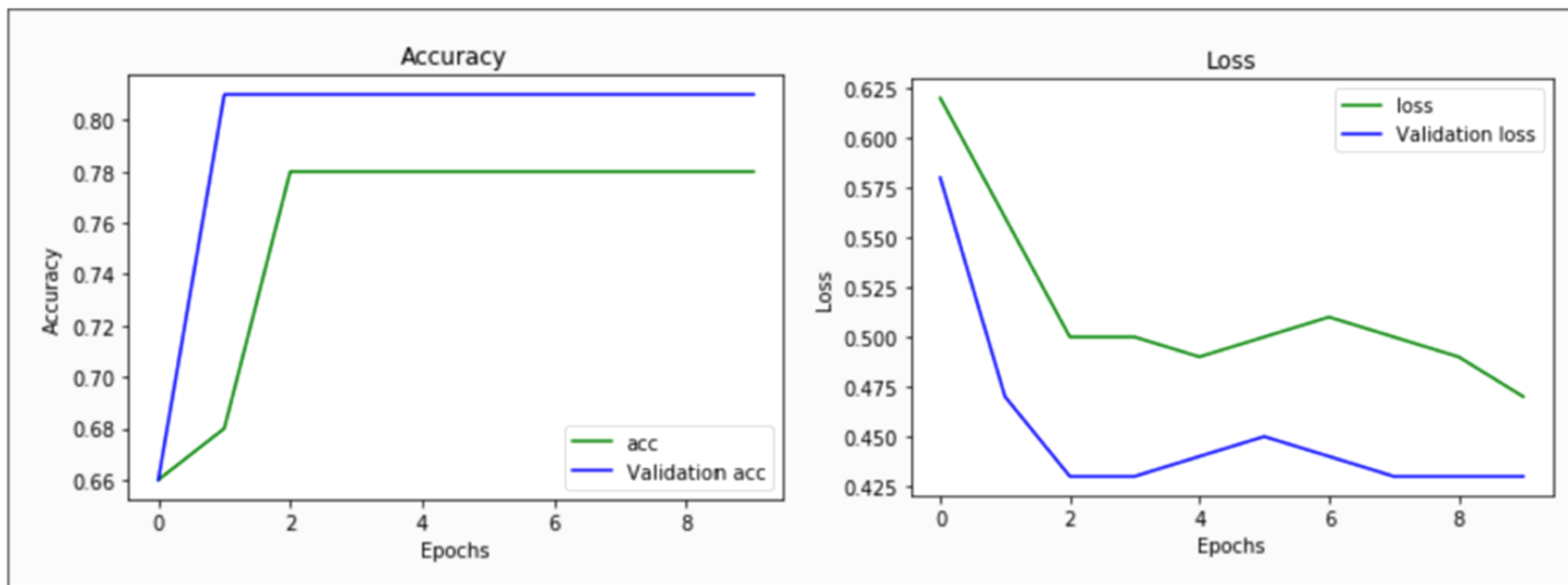


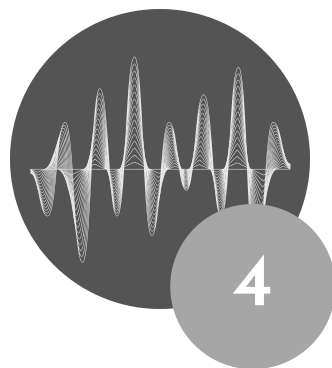


Results and Conclusions

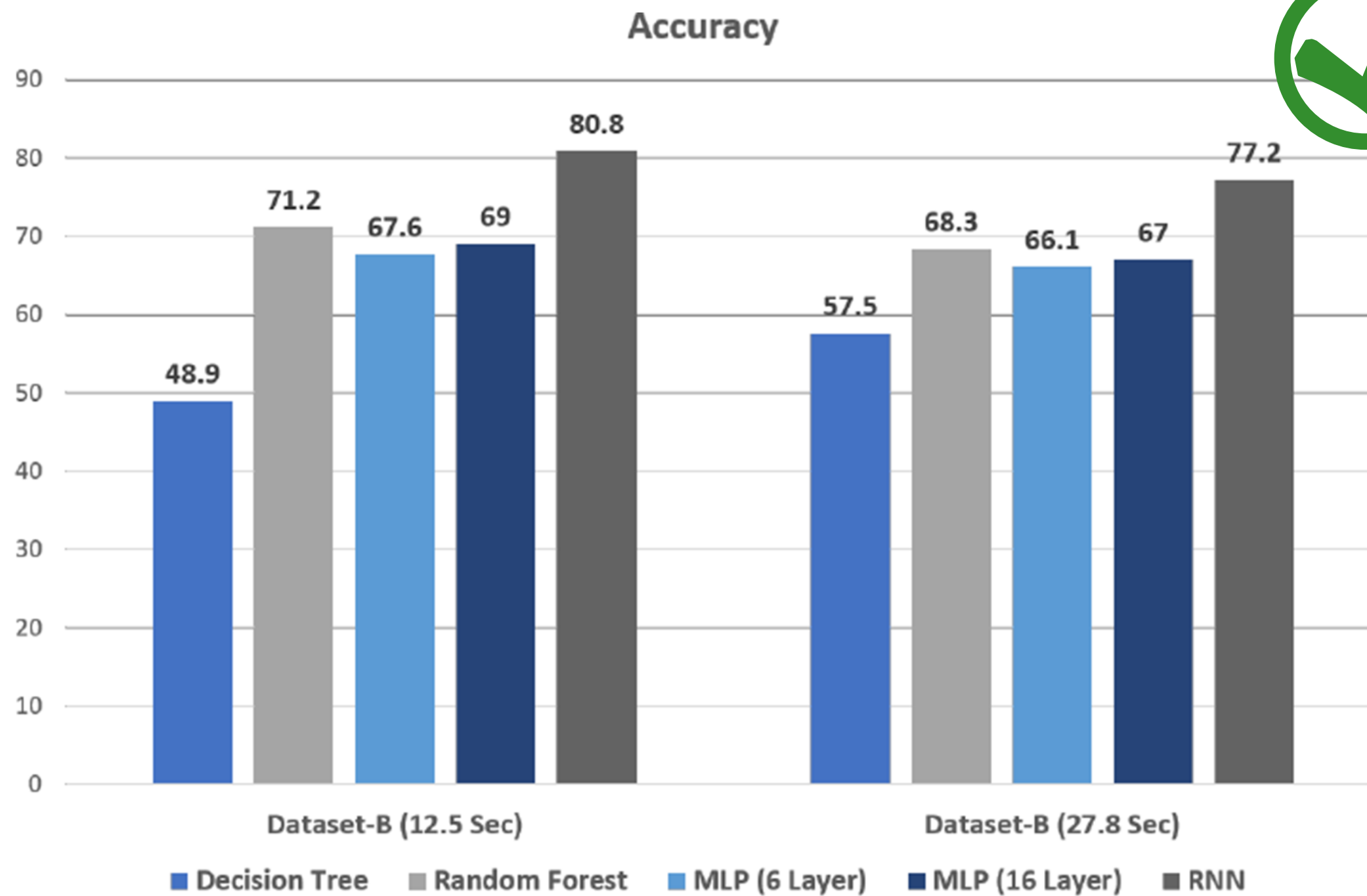


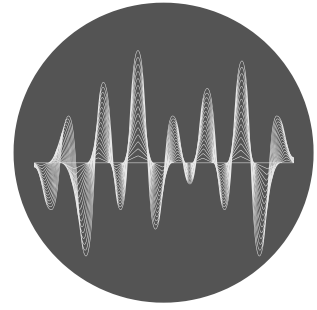
Validation Accuracy and Loss during the training of RNN Model





Results and Conclusions





References

Ali Raza, ArifMehmood, Saleem Ullah , Maqsood Ahmad , Gyu Sang Choi, and Byung-Won On - 'Heartbeat Sound Signal Classification Using Deep Learning'; Received: 4 October 2019; Accepted: 31 October 2019; Published: 5 November 2019.

Thank you for your attention!