Performance Comparison on *real-life Business Data* : FFN VS. LSTM

TABLE OF CONTENTS

01 WORKFLOW

02 Feed-forward Neural Network MODEL

03 LSTM MODEL

04 COMPARISON

05 SUMMARY

WORKFLOW

STAGE 01

DATA PREPARATION

Number of data = 500

1-100,2-101,3-102...

400 series

100 timesteps

5 variables

STAGE 02

SPLIT TASK AND BUILD MODEL

- FNN
- LSTM

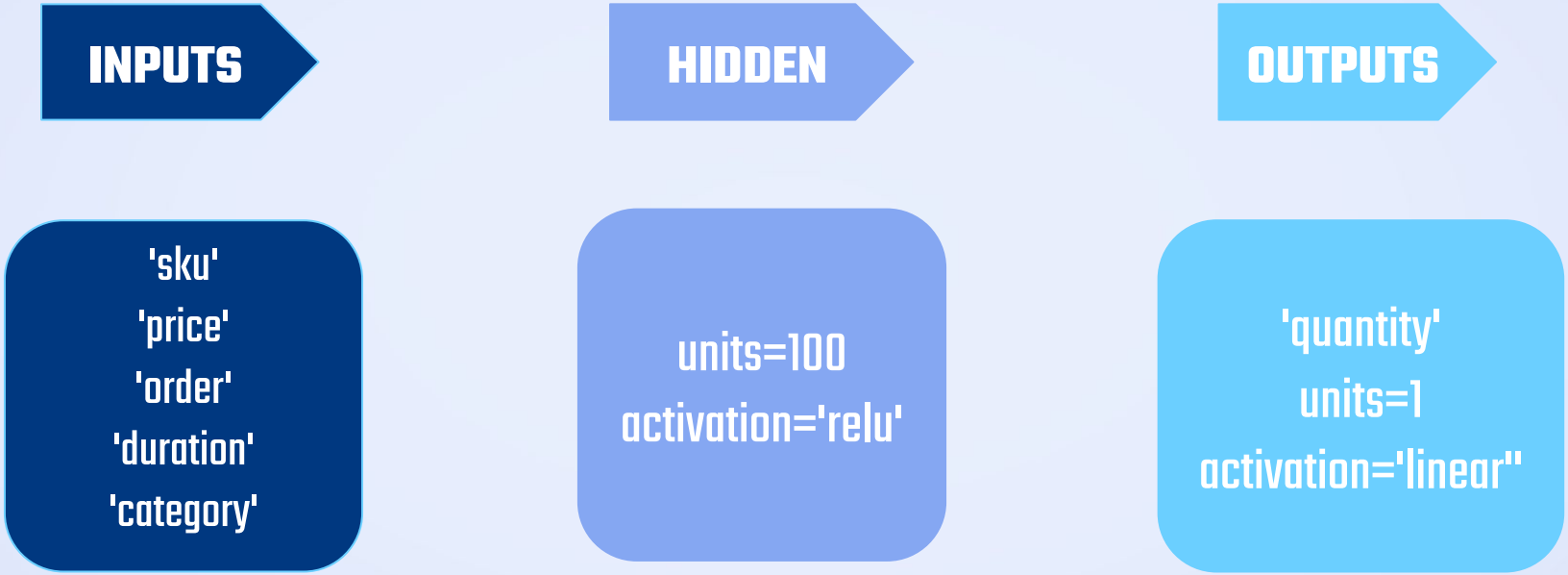
STAGE 03

TEAM WORK

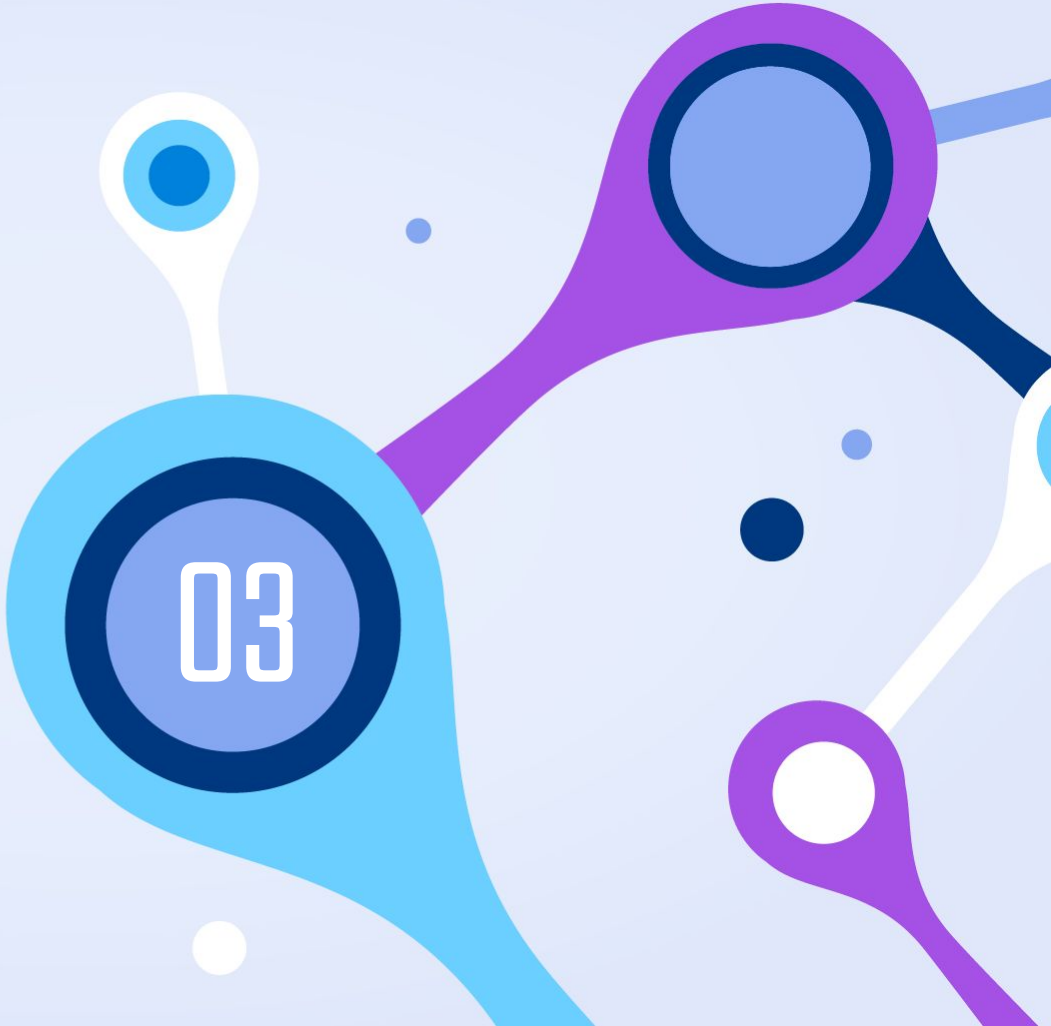


FNN Model

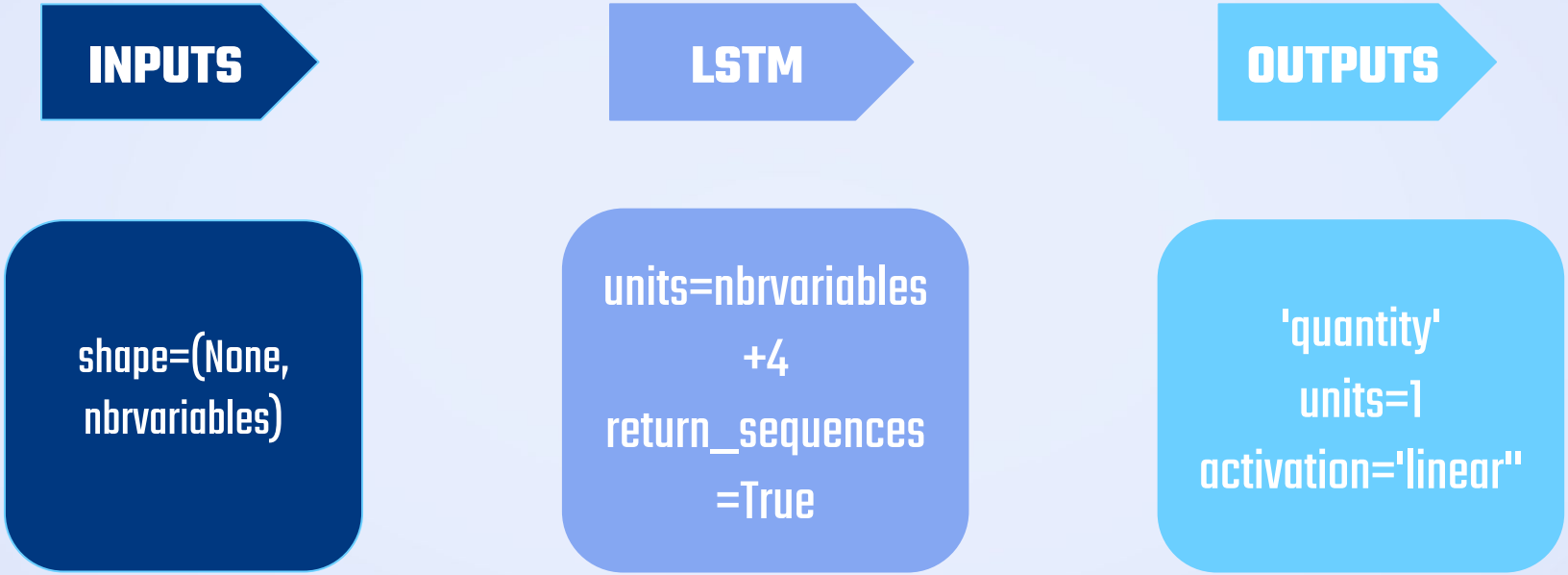
Specify Architecture



LSTM MODEL

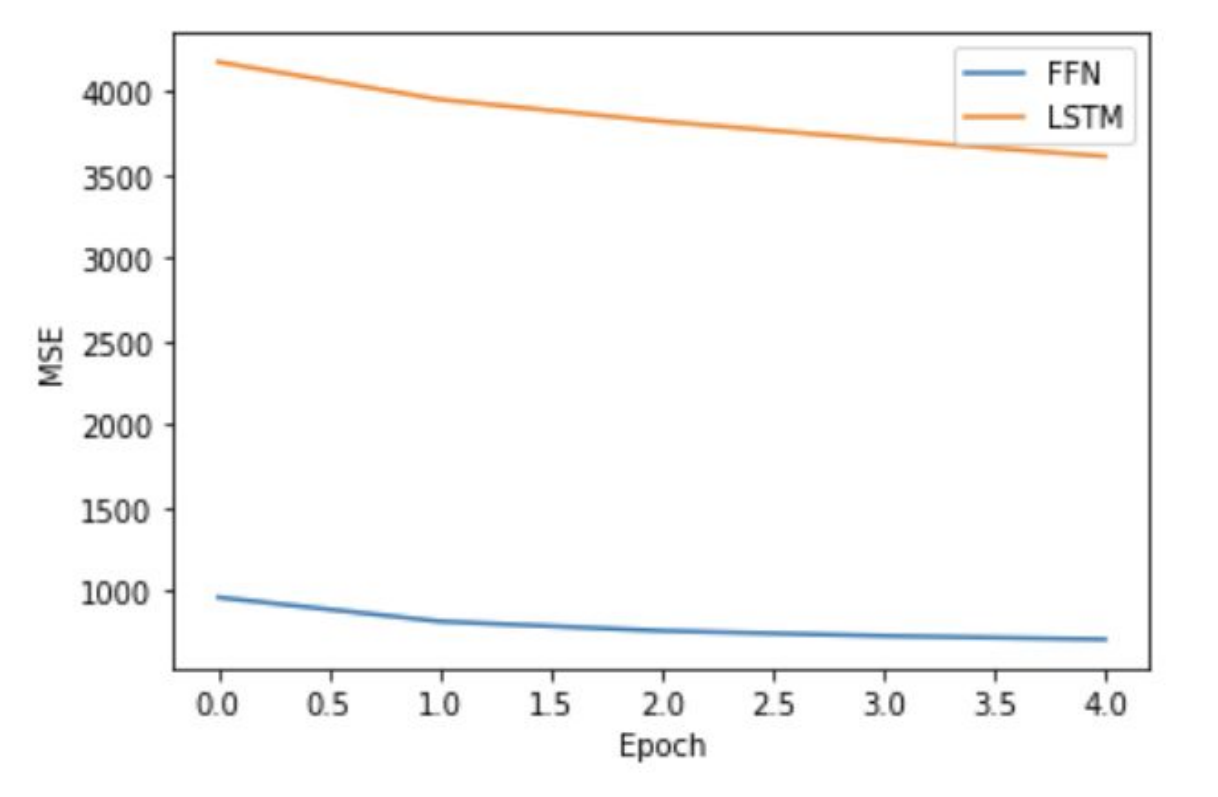


Specify Architecture



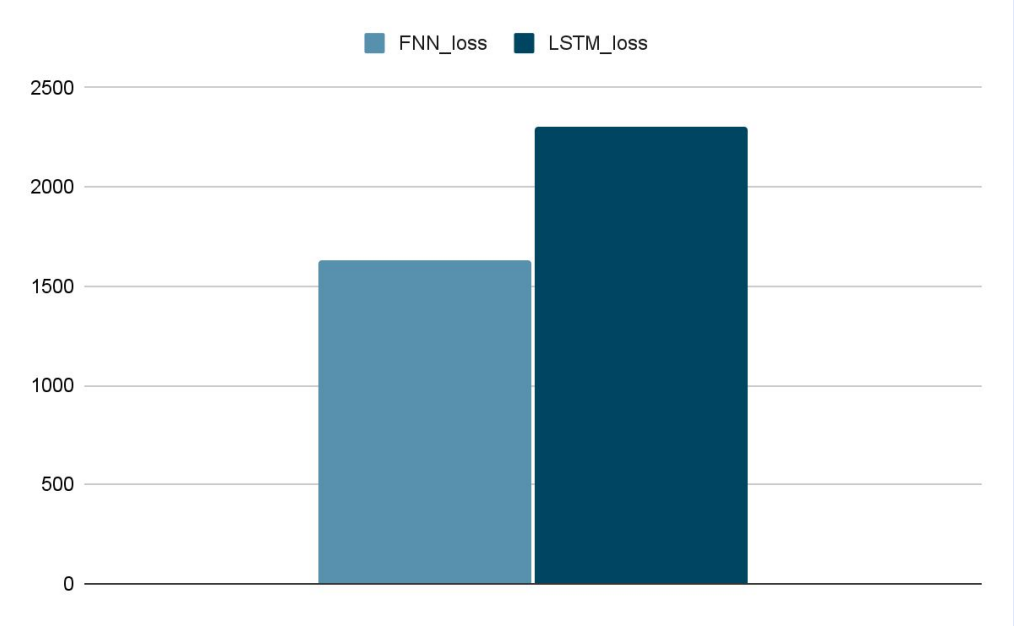
Comparison

FNN vs LSTM Loss Plot



Validation

Model	FNN	LSTM
Loss	1631.09	2299.44



Summary

Summary

1

Conclusion

FNN performs better than LSTM because it has lower MSE in training and less loss in validation

2

Potential Improvement

Use more data points to train the model - Currently, 500 data points were are to train the model. We tried to used 3000 data points but it took too long.

QUESTIONS?

CREDITS: This presentation template was created by **Slidesgo**, including icons by **Flaticon**, and infographics & images by **Freepik**