
A Natural Language Processing Framework for Training a Neural Network Chatbot

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Contents

1	Introduction	5
2	Context	6
2.1	Objectives	6
2.2	Chapter Review	6
2.2.1	Methodology	6
2.2.2	Technology Review	6
2.2.3	System Design	6
2.2.4	System Evaluation	6
2.2.5	Conclusion	6
2.3	Background Research	6
3	Methodology	7
3.1	Agile Development	8
3.2	Version Control	8
3.3	Sprints	8
3.3.1	Sprint 1	8
3.3.2	Sprint 2	8
3.3.3	Sprint 3	8
3.3.4	Sprint 4	8
3.3.5	Sprint 5	8
3.3.6	Sprint 6	8
3.3.7	Sprint 7	8
3.3.8	Sprint 8	8
3.3.9	Sprint 9	8
3.3.10	Sprint 10	8
3.3.11	Sprint 11	8
3.3.12	Sprint 12	8
3.4	Testing	8

4	Technology Review	10
4.1	Visual Studio Code	11
4.2	GitHub	11
4.3	Python	11
4.4	JSON	11
4.5	Google Cloud Platform	11
4.6	AIY Voice Kit from Google	11
4.7	Natural Language Processing	11
4.8	TensorFlow	11
4.9	SQLite3	11
4.10	MySQL	11
4.11	Tkinter	11
4.12	CSV	11
4.13	LaTeX	11
4.14	TeXstudio	11
5	System Design	12
5.1	Architecture	12
5.2	Data Design	12
5.2.1	Dataset Generation	12
5.2.2	JSON	12
5.2.3	CSV	12
5.3	Component Design	12
5.3.1	Artificial Neural Networks	12
5.3.2	Pattern Matchers	12
5.3.3	NLP	12
5.4	GUI	12
6	System Evaluation	14
7	Conclusion	15

About this project

Abstract A brief description of what the project is, in about two-hundred and fifty words.

Authors Explain here who the authors are.

Chapter 1

Introduction

The introduction should be about three to five pages long. Make sure you use references [1]

Chapter 2

Context

- Provide a context for your project.
- Set out the objectives of the project
- Briefly list each chapter / section and provide a 1-2 line description of what each section contains.
- List the resource URL (GitHub address) for the project and provide a brief list of the main elements at the URL.

2.1 Objectives

2.2 Chapter Review

2.2.1 Methodology

2.2.2 Technology Review

2.2.3 System Design

2.2.4 System Evaluation

2.2.5 Conclusion

2.3 Background Research

Chapter 3

Methodology

3.1 Agile Development

3.2 Version Control

3.3 Sprints

3.3.1 Sprint 1

3.3.2 Sprint 2

3.3.3 Sprint 3

3.3.4 Sprint 4

3.3.5 Sprint 5

3.3.6 Sprint 6

3.3.7 Sprint 7

3.3.8 Sprint 8

3.3.9 Sprint 9

3.3.10 Sprint 10

3.3.11 Sprint 11

3.3.12 Sprint 12

3.4 Testing

About one to two pages. Describe the way you went about your project:

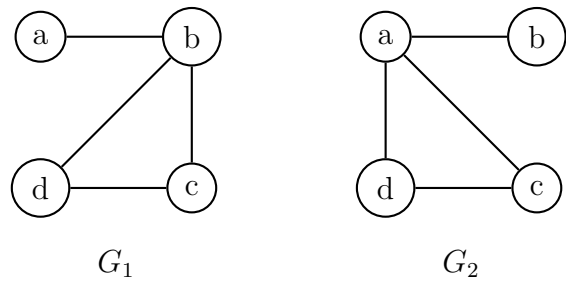


Figure 3.1: Nice pictures

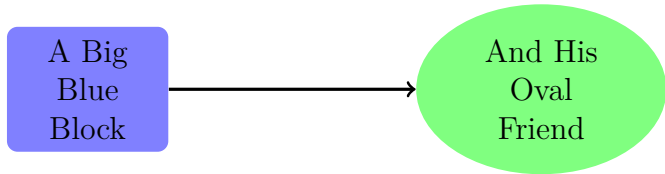


Figure 3.2: Nice pictures

- Agile / incremental and iterative approach to development. Planning, meetings.
- What about validation and testing? Junit or some other framework.
- If team based, did you use GitHub during the development process.
- Selection criteria for algorithms, languages, platforms and technologies.

Check out the nice graphs in Figure 3.2, and the nice diagram in Figure ??.

Chapter 4

Technology Review

About seven to ten pages.

- Describe each of the technologies you used at a conceptual level. Standards, Database Model (e.g. MongoDB, CouchDB), XML, WSDL, JSON, JAXP.
- Use references (IEEE format, e.g. [1]), Books, Papers, URLs (timestamp) – sources should be authoritative.

- 4.1 Visual Studio Code
- 4.2 GitHub
- 4.3 Python
- 4.4 JSON
- 4.5 Google Cloud Platform
- 4.6 AIY Voice Kit from Google
- 4.7 Natural Language Processing
- 4.8 TensorFlow
- 4.9 SQLite3
- 4.10 MySQL
- 4.11 Tkinter
- 4.12 CSV
- 4.13 LaTeX
- 4.14 TeXstudio

Chapter 5

System Design

5.1 Architecture

5.2 Data Design

5.2.1 Dataset Generation

5.2.2 JSON

5.2.3 CSV

5.3 Component Design

5.3.1 Artificial Neural Networks

5.3.2 Pattern Matchers

5.3.3 NLP

5.4 GUI

As many pages as needed.

- Architecture, UML etc. An overview of the different components of the system. Diagrams etc... Screen shots etc.

Column 1	Column 2
Rows 2.1	Row 2.2

Table 5.1: A table.

Chapter 6

System Evaluation

As many pages as needed.

- Prove that your software is robust. How? Testing etc.
- Use performance benchmarks (space and time) if algorithmic.
- Measure the outcomes / outputs of your system / software against the objectives from the Introduction.
- Highlight any limitations or opportunities in your approach or technologies used.

Chapter 7

Conclusion

About three pages.

- Briefly summarise your context and ob-jectives (a few lines).
- Highlight your findings from the evalua-tion section / chapter and any opportuni-ties identified.

Bibliography

- [1] A. Einstein, “Zur Elektrodynamik bewegter Körper. (German) [On the electrodynamics of moving bodies],” *Annalen der Physik*, vol. 322, no. 10, pp. 891–921, 1905.