

DAFTAR ISI

LEMBAR PERSETUJUAN	i
LEMBAR PENGESAHAN	ii
PERNYATAAN KEASLIAN SKRIPSI	iii
ABSTRAK	iv
ABSTRACT	v
KATA PENGANTAR	vi
DAFTAR ISI	viii
DAFTAR GAMBAR	xi
DAFTAR TABEL	xiii
DAFTAR SIMBOL	xiv
DAFTAR LAMPIRAN	xv
BAB I PENDAHULUAN	1
1.1 Latar Belakang Masalah.....	1
1.2 Rumusan Masalah	4
1.3 Batasan Masalah.....	4
1.4 Tujuan dan Manfaat Penelitian	5
1.5 Metode Penelitian.....	5
1.6 Sistematika Penulisan.....	6
BAB II LANDASAN TEORI	7
2.1 <i>Question Answering System</i>	7
2.2 <i>Text Preprocessing</i>	8
2.3 <i>Word Embedding</i>	9
2.4 <i>Artificial Neural Network (ANN)</i>	11
2.5 <i>Recurrent Neural Network (RNN)</i>	14

2.6 <i>Gated Recurrent Unit (GRU)</i>	16
2.7 <i>Sequence To Sequence Model dan Attention Mechanism</i>	17
2.8 <i>Memory Networks</i>	18
2.9 <i>Python</i>	19
BAB III QUESTION ANSWERING MENGGUNAKAN DYNAMIC MEMORY NETWORKS	20
3.1 <i>Pengambilan Data</i>	20
3.2 <i>Data Preparation</i>	22
3.2.1 <i>Pemisahan Data</i>	22
3.2.2 <i>Text Preprocessing</i>	23
3.2.3 <i>Word Embedding</i>	29
3.3 <i>Dynamic Memory Networks</i>	31
3.3.1 <i>Input Module</i>	32
3.3.2 <i>Question Module</i>	34
3.3.3 <i>Episodic Memory Module</i>	35
3.3.4 <i>Answer Module</i>	38
3.4 <i>Training dan Testing</i>	38
BAB IV ANALISIS HASIL QUESTION ANSWERING MENGGUNAKAN DYNAMIC MEMORY NETWORKS PADA DATA SEJARAH HIDUP RASULULLAH SHALLALLAHU 'ALAIHI WA SALLAM	40
4.1 <i>Dataset</i>	40
4.2 <i>Hyperparameter</i>	41
4.3 <i>Hasil Percobaan</i>	42
4.3.1 <i>Data Single</i>	42
4.3.2 <i>Data Multiple</i>	45
4.3.3 <i>Data Wikipedia</i>	49
4.4 <i>Analisis Hasil Percobaan</i>	53

4.4.1 Analisis Hasil Berdasarkan <i>Hyperparameter</i>	53
4.4.2 Analisis Hasil Berdasarkan Data.....	61
BAB V PENUTUP	63
5.1 Kesimpulan	63
5.2 Saran.....	64
DAFTAR PUSTAKA	65
RIWAYAT HIDUP	67
LAMPIRAN	68

