

DAFTAR ISI

| | |
|--|-----|
| Persetujuan | i |
| PERNYATAAN | ii |
| ABSTRAK..... | iii |
| KATA PENGANTAR..... | iv |
| DAFTAR ISI..... | v |
| DAFTAR TABEL..... | vi |
| DAFTAR GAMBAR | vii |
| DAFTAR LAMPIRAN..... | ix |
| BAB I PENDAHULUAN | 1 |
| 1.1 Latar Belakang Masalah | 1 |
| 1.2 Batasan Penelitian | 3 |
| 1.3 Tujuan dan Manfaat Penelitian | 4 |
| 1.3.1 Tujuan Penelitian | 4 |
| 1.3.2 Manfaat Penelitian | 4 |
| 1.4 Metodologi Penelitian | 4 |
| 1.5 Sistematika Penulisan | 4 |
| 1.6 Lokasi dan Waktu Pelaksanaan..... | 5 |
| BAB II TINJAUAN PUSTAKA..... | 6 |
| 2.1 Teori umum | 6 |
| 2.1.1 Pemilihan umum | 6 |
| 2.1.2 <i>Twitter</i> | 6 |
| 2.1.3 <i>Application Programming Interface (API)</i> | 7 |
| 2.2 Teori Khusus | 7 |
| 2.2.1 <i>K-Means Clustering</i> | 7 |
| 2.2.2 Analisis Sentimen | 7 |
| 2.2.3 <i>Text Mining</i> | 8 |
| 2.2.4 <i>Preprocessing Text</i> | 8 |
| 2.2.5 Polaritas | 9 |
| 2.2.6 Subjektivitas..... | 9 |
| 2.2.7 <i>Rapid Miner</i> | 10 |
| 2.2.8 <i>Python</i> | 10 |
| 2.2.9 <i>Anaconda</i> | 10 |
| 2.3 Penelitian Terdahulu..... | 11 |

| | |
|---|----|
| BAB III METODOLOGI PENELITIAN..... | 13 |
| 3.1 Alur Penelitian | 13 |
| 3.2 Data Penelitian | 15 |
| 3.2.1 Instalasi Rapidminer | 16 |
| 3.2.2 Proses Pengumpulan Data | 22 |
| 3.2.3 Tahapan Preprocessing | 23 |
| 3.3 Metode dan Teknik Analisa Data | 28 |
| 3.3.1 Clustering K-Means..... | 28 |
| 3.4 Pengujian Data Evaluasi..... | 29 |
| 3.4.1 Pengujian | 29 |
| 3.4.2 Silhouette Coefficient..... | 30 |
| 3.5 Rancangan Model | 31 |
| BAB IV HASIL DAN PEMBAHASAN | 32 |
| 4.1 Penyajian dan Deskripsi Data Penelitian | 32 |
| 4.1.1 Penarikan data Menggunakan Rapidminer | 32 |
| 4.1.1.1 Search Twitter | 32 |
| 4.1.1.2 Remove Duplicates | 35 |
| 4.1.1.3 Select Attributes..... | 36 |
| 4.1.1.4 Subprocess..... | 38 |
| 4.1.1.5 Replace | 38 |
| 4.1.1.6 Write CSV..... | 39 |
| 4.1.2 Proses yang dilakukan..... | 39 |
| 4.1.2.1 Preprocessing | 39 |
| 4.1.2.2 Pelabelan | 40 |
| 4.1.2.3 Clustering K-Means | 41 |
| 4.1.2.4 Pengujian menggunakan silhouette coefficient..... | 43 |
| 4.1.2.5 Visualisasi Worldcloud | 44 |
| 4.2 Tahap Implementasi..... | 44 |
| BAB V KESIMPULAN..... | 46 |
| 5.1 Kesimpulan | 46 |
| 5.2 Saran | 46 |
| Daftar Pustaka..... | 47 |
| LAMPIRAN..... | 48 |
| RIWAYAT HIDUP | 66 |