

## DAFTAR GAMBAR

|                                                                                                                 |     |
|-----------------------------------------------------------------------------------------------------------------|-----|
| Gambar 3. 1 Extract, Transform, Load(ETL) .....                                                                 | 22  |
| Gambar 3. 2 Data Warehouse.....                                                                                 | 23  |
| Gambar 3. 3 Alur Tahapan Roadmap Business Intelligence.....                                                     | 29  |
| Gambar 3. 4 Logo Microsoft Power BI .....                                                                       | 54  |
| Gambar 4. 1 Bagan alur penelitian.....                                                                          | 65  |
| Gambar 4. 2 Lokasi Dinas Pariwisata .....                                                                       | 75  |
| Gambar 5. 1 Gambar Star Schema .....                                                                            | 84  |
| Gambar 5. 2 Mockup Halaman Ringkasan Dashboard Business Intelligence.....                                       | 85  |
| Gambar 5. 3 Mockup Halaman Data Detail Dashboard .....                                                          | 87  |
| Gambar 5. 4 Mockup Halaman Analisis Sebaran Dashboard.....                                                      | 89  |
| Gambar 5. 5 Mockup Halaman Evaluasi K-Means .....                                                               | 90  |
| Gambar 5. 6 Data Awal Destinasi Wisata Kabupaten Ciamis dalam Format<br>Microsoft Excel.....                    | 93  |
| Gambar 5. 7 Proses Pengambilan Data Rating Destinasi Wisata melalui Google<br>Maps.....                         | 94  |
| Gambar 5. 8 Penelusuran Informasi Harga Tiket Destinasi Wisata melalui Situs<br>Web .....                       | 95  |
| Gambar 5. 9 Proses Data Cleaning dan Penanganan Missing Values<br>Menggunakan Python.....                       | 98  |
| Gambar 5. 10 Kode Python Penentuan Variabel Fitur dan Standardisasi Z-Score<br>dengan Pembobotan Variabel.....  | 100 |
| Gambar 5. 11 Implementasi Standardisasi Z-Score dan Pembobotan Variabel Total<br>Wisnus Menggunakan Python..... | 102 |
| Gambar 5. 12 Kode python Elbow Method .....                                                                     | 104 |
| Gambar 5. 13 Grafik Elbow Method.....                                                                           | 106 |
| Gambar 5. 14 Kode Python <i>Implementasi</i> Algoritma K-Means.....                                             | 107 |
| Gambar 5. 15 Output Implementasi Algoritma K-Means.....                                                         | 109 |
| Gambar 5. 16 Kode Python Silhouette Score .....                                                                 | 111 |
| Gambar 5. 17 Grafik Silhouette Score .....                                                                      | 113 |
| Gambar 5. 18 Get Data dari Exel di Power BI.....                                                                | 118 |
| Gambar 5. 19 Tampilan Data .....                                                                                | 119 |
| Gambar 5. 20 Kode DAX di Power BI .....                                                                         | 120 |

|                                                      |     |
|------------------------------------------------------|-----|
| Gambar 5. 21 Hasil Contoh Kode DAX di Power BI ..... | 121 |
| Gambar 5. 22 Halaman Ringkasan Dashboard .....       | 123 |
| Gambar 5. 23 Halaman Data Detail .....               | 123 |
| Gambar 5. 24 Halaman Analisis Sebaran.....           | 124 |
| Gambar 5. 25 Halaman Evaluasi K-Means.....           | 124 |