

DAFTAR GAMBAR

| | |
|--|----|
| Gambar 1. 1 Logo Perusahaan Telkomsel | 1 |
| Gambar 1. 2 Tampilan MyTelkomsel Apps..... | 2 |
| Gambar 1. 3 Pertumbuhan Revenue MyTelkomsel Apps dari pembayaran by Fintech..... | 5 |
| Gambar 1. 4 Pertumbuhan Active User dan Package User MyTelkomsel Apps..... | 5 |
| Gambar 1. 5 Pertumbuhan Package User terhadap Revenue MyTelkomsel Apps.. | 6 |
| Gambar 1. 6 Pertumbuhan Package User terhadap Revenue MyTelkomsel Apps.. | 7 |
| Gambar 1. 7 Conversion Rate & Achievement to Target of MyTelkomsel Apps . | 10 |
| Gambar 2. 1 Maketing Mix 4..... | 23 |
| Gambar 2. 2 Personalized Marketing process..... | 25 |
| Gambar 2. 3 Personalized Marketing process..... | 41 |
| Gambar 2. 4 Kerangka Pemikiran..... | 42 |
| Gambar 3. 1 The Cross-Industry Standard Process for Data Mining | 54 |
| Gambar 3. 2 Hierarchical Clustering | 57 |
| Gambar 3. 3 Clustering Algorithms | 57 |
| Gambar 3. 4 Tahap Penentuan dan Analisa Cluster..... | 58 |
| Gambar 3. 5 Target Populasi untuk Penelitian | 59 |
| Gambar 4. 1 Populasi Penelitian | 63 |
| Gambar 4. 2 Cara Pengambilan Data di MySQL..... | 63 |
| Gambar 4. 3 Import Library | 65 |
| Gambar 4. 4 Import Sampling Data | 65 |
| Gambar 4. 5 Cek Variabel dan Missing Value | 66 |
| Gambar 4. 6 Create Tabel x and Tabel y | 67 |
| Gambar 4. 7 Pengaplikasian Model pada Data | 68 |
| Gambar 4. 8 Pengukuran Akurasi Model | 68 |
| Gambar 4. 9 Perhitungan Confusion Matrix | 70 |
| Gambar 4. 10 Shap Value | 71 |
| Gambar 4. 11 <i>Import dan Cleansing Data Lapser</i> | 72 |
| Gambar 4. 12 <i>Cleansing Data Lapser</i> | 73 |
| Gambar 4. 13 Implementasi Model..... | 74 |
| Gambar 4. 14 Penerapan Algoritma K-Means Clustering | 75 |
| Gambar 4. 15 Elbow Method..... | 75 |
| Gambar 4. 16 Pehitungan SSE..... | 76 |
| Gambar 4. 17 Korelasi Cluster Terhadap Variabel rev_bb_umb | 78 |
| Gambar 4. 18 Korelasi Cluster Terhadap Variabel rev_bb_mkios..... | 79 |
| Gambar 4. 19 Korelasi Cluster Terhadap Variabel rev_acq | 79 |
| Gambar 4. 20 Korelasi Cluster Terhadap Variabel rev_pv..... | 80 |
| Gambar 4. 21 Korelasi Cluster Terhadap Variabel trx_broadband_package | 80 |
| Gambar 5. 1 Behavioral Targeting Design | 84 |