# DAFTAR ISI

<table>
<thead>
<tr>
<th>Halaman</th>
<th>Judul</th>
<th>Halaman</th>
</tr>
</thead>
<tbody>
<tr>
<td>iii</td>
<td>HALAMAN PERSETUJUAN PEMBIMBING</td>
<td></td>
</tr>
<tr>
<td>iv</td>
<td>HALAMAN PENGESAHAN</td>
<td></td>
</tr>
<tr>
<td>v</td>
<td>KATA PENGANTAR</td>
<td></td>
</tr>
<tr>
<td>vii</td>
<td>DAFTAR ISI</td>
<td></td>
</tr>
<tr>
<td>ix</td>
<td>DAFTAR TABEL</td>
<td></td>
</tr>
<tr>
<td>x</td>
<td>DAFTAR GAMBAR</td>
<td></td>
</tr>
<tr>
<td>xi</td>
<td>DAFTAR LAMPIRAN</td>
<td></td>
</tr>
<tr>
<td>xii</td>
<td>SURAT PERNYATAAN</td>
<td></td>
</tr>
<tr>
<td>xiii</td>
<td>INTISARI</td>
<td></td>
</tr>
<tr>
<td>xiv</td>
<td>ABSTRACT</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>BAB I PENDAHULUAN</td>
<td></td>
</tr>
<tr>
<td>1.1</td>
<td>Latar Belakang</td>
<td>1</td>
</tr>
<tr>
<td>1.2</td>
<td>Rumusan Masalah</td>
<td>5</td>
</tr>
<tr>
<td>1.3</td>
<td>Batasan Masalah</td>
<td>5</td>
</tr>
<tr>
<td>1.4</td>
<td>Tujuan Penelitian</td>
<td>6</td>
</tr>
<tr>
<td>1.5</td>
<td>Manfaat Penelitian</td>
<td>6</td>
</tr>
<tr>
<td>7</td>
<td>BAB II TINJAUAN PUSTAKA</td>
<td></td>
</tr>
<tr>
<td>3.1</td>
<td>Penelitian Mengenai Metode Plaid</td>
<td>7</td>
</tr>
<tr>
<td>3.2</td>
<td>Penelitian Biclustering Pada Jagung</td>
<td>10</td>
</tr>
<tr>
<td>3.3</td>
<td>Penelitian Metode Biclustering Menggunakan R</td>
<td>10</td>
</tr>
<tr>
<td>12</td>
<td>BAB III LANDASAN TEORI</td>
<td></td>
</tr>
<tr>
<td>3.1</td>
<td>Botani Tanaman Jagung</td>
<td>12</td>
</tr>
<tr>
<td>3.1.1</td>
<td>Taksonomi</td>
<td>12</td>
</tr>
<tr>
<td>3.1.2</td>
<td>Morfologi</td>
<td>12</td>
</tr>
<tr>
<td>3.2</td>
<td>Pemuliaan Tanaman</td>
<td>14</td>
</tr>
<tr>
<td>3.3</td>
<td>Bioinformatika</td>
<td>14</td>
</tr>
<tr>
<td>3.6.1</td>
<td>Pengertian Bioinformatika</td>
<td>14</td>
</tr>
<tr>
<td>3.6.2</td>
<td>Next Generation Sequencing (NGS)</td>
<td>16</td>
</tr>
<tr>
<td>3.6.3</td>
<td>Gene Expression Analysis</td>
<td>18</td>
</tr>
</tbody>
</table>
3.4. **Biclustering** ........................................................................................................ 19
  3.4.1 Pengertian **Biclustering** .................................................................................. 19
  3.4.2 Tipe dan struktur biclustering ............................................................................ 21
3.5. **Filtering** .............................................................................................................. 22
3.6. **Feature Selection** ............................................................................................... 22
3.7. Model **Plaid** .......................................................................................................... 23
3.8. **Software R** ........................................................................................................... 25

**BAB IV METODOLOGI PENELITIAN** ................................................................. 27
  4.1. Tempat dan Waktu Penelitian .............................................................................. 27
  4.2. Sumber Data ........................................................................................................... 27
  4.3. Metode Analisis Data ........................................................................................... 27
  4.4. Variabel dan Definisi Operasional Variabel ......................................................... 27
  4.5. Langkah Penelitian ............................................................................................... 29

**BAB V HASIL DAN PEMBAHASAN** .................................................................. 31
  5.1. Pendahuluan .......................................................................................................... 31
  5.2. Ringkasan dan Struktur Data .............................................................................. 34
  5.3. Analisis Deskriptif ................................................................................................. 34
  5.4. **Filtering** ............................................................................................................ 35
  5.5. Algoritma **Plaid** ................................................................................................ 36

**BAB VI KESIMPULAN DAN SARAN** ................................................................. 43

**LAMPIRAN** ............................................................................................................ 52