LAMPIRAN

Lampiran 1. *Source Code* **Program**

    a. *Form* Input Konfigurasi Parameter *Backpropagation*

```php
<?php require_once('includes/init.php');
cek_login($role = array(1));
$errors = array();
$sukses = false;
$judul_page = 'Proses Backpropagation';
require_once('template-parts/header.php');
?>
<div id="bpn">
<div class="main-content-row">
<div class="container clearfix">
<div class="main-content the-content">
<h1>Proses Backpropagation</h1>
<br>
<?php if(!empty($errors)): ?>
<div class="msg-box warning-box">
    <p><strong>Error:</strong></p>
    <ul>
        <?php foreach($errors as $error): ?>
        <li><?php echo $error; ?></li>
        <?php endforeach; ?>
    </ul>
</div>
<?php endif; ?>
<form action="backpropagation.php" method="post">
   <div class="form-horizontal" role="form">
       <div class="form-group">
           <label for="Learning Rate" class="col-sm-2 control-
label">Learning Rate</label>
           <div class="col-xs-3">
               <input type="text" id="lr" class="form-control"
size="5" value="0.2" placeholder="Learning Rate">
           </div>
       </div>
       <div class="form-group">
```

```
            <label    for="Momentum"    class="col-sm-2    control-
label">Momentum</label>
            <div class="col-xs-3">
                <input type="text" id="mm" class="form-control"
size="5" value="0.5" placeholder="Momentum">
            </div>
        </div>
        <div class="form-group">
            <label for="Target Error" class="col-sm-2 control-
label">Target Error</label>
            <div class="col-xs-3">
                <input type="text" id="th" class="form-control"
size="5" value="0.000001" placeholder="Target Error">
            </div>
        </div>
        <div class="form-group">
            <label    for="Epoch"    class="col-sm-2    control-
label">Epoch</label>
            <div class="col-xs-3">
                <input type="text" id="tt" class="form-control"
size="5" value="750" placeholder="Epoch">
            </div>
        </div>
        <div class="form-group">
            <label for="Input Layer" class="col-sm-2 control-
label">Input</label>
            <div class="col-xs-3">
                <input type="text" id="il" class="form-control"
size="5" value="14" readonly placeholder="Input Layer">
            </div>
        </div>
        <div class="form-group">
            <label    for="Hidden"    class="col-sm-2    control-
label">Hidden</label>
            <div class="col-xs-3">
                <input type="text" id="hl" class="form-control"
size="5" value="27" placeholder="Hidden">
            </div>
        </div>
```

```
        <div class="form-group">
            <label   for="Output"   class="col-sm-2   control-
label">Output</label>
            <div class="col-xs-3">
                <input type="text" id="ot" class="form-control"
size="5" value="3" readonly placeholder="Output">
            </div>
        </div>
        <div class="form-group">
            <label  for="data_testing"  class="col-sm-2  control-
label">Split Data</label>
            <div class="col-xs-3">
                    <select id="dt" name="dt">
                    <option value="1">90:10</option>
                    <option value="2">80:20</option>
                    <option value="3">70:30</option>
                </select>
            </div>
        </div>
        <div class="form-group">
            <div class="col-sm-offset-2 col-sm-10">
                <div class="controls">
                    <button    id="process"    name="button1id"
class="btn btn-success">Process</button>
                    <button    id="reset"    name="button2id"
class="btn btn-danger">Reset</button>
                </div>
                <br>
            </div>
        </div>
    </div>
</div>
</div>
</div>
</div>
</div>
<?php
require_once('template-parts/footer.php');
```

b. Proses Pelatihan dan Pengujian *Backpropagation*

```php
<div class="main-content-row">
<div class="container clearfix">
<?php
set_time_limit(0);
include "includes/konek-db.php";
if($_POST){
    $con = mysqli_connect("localhost","root","","sistem-pakar");
    //hapus data error
    $del_data = $pdo->prepare("DELETE FROM mse");
    $del_data->execute();
    global $koneksi_db,$maxdata, $maxkonten;
    $learning_rate  = $_POST['lr'];
    $momentum       = $_POST['mm'];
    $threshold      = $_POST['th'];
    $training_time  = $_POST['tt'];
    $hidden         = $_POST['hl'];
    $dt             = $_POST['dt'];
    $inputl         = $_POST['il'];
    $outputl        = $_POST['ot'];
    $beta           = $learning_rate;
    $alpha          = $momentum;
    $Thresh         = $threshold;
    $numEpoch       = $training_time;
    if($dt == '1'){
        $sql_training  = mysqli_query($con,  "SELECT  *  FROM
dt_training  WHERE  id_training  BETWEEN  1  and  108  ORDER  BY
`dt_training`.`id_training` ASC");
        $sql_testing  =  mysqli_query($con,  "SELECT  *  FROM
dt_testing  WHERE  id_testing  BETWEEN  1  and  12  ORDER  BY
`dt_testing`.`id_testing` ASC");
    }
    elseif($dt == '2'){
        $sql_training  =  mysqli_query($con,  "SELECT  *  FROM
dt_training  WHERE  id_training  BETWEEN  1  and  96  ORDER  BY
`dt_training`.`id_training` ASC");
        $sql_testing  =  mysqli_query($con,  "SELECT  *  FROM
dt_testing  WHERE  id_testing  BETWEEN  1  and  24  ORDER  BY
`dt_testing`.`id_testing` ASC");
```

```
    }
    elseif($dt == '3'){
        $sql_training  =  mysqli_query($con,  "SELECT  *  FROM
dt_training  WHERE  id_training  BETWEEN  1  and  84  ORDER  BY
`dt_training`.`id_training` ASC");
        $sql_testing  =  mysqli_query($con,  "SELECT  *  FROM
dt_testing  WHERE  id_testing  BETWEEN  1  and  36  ORDER  BY
`dt_testing`.`id_testing` ASC");
    }
    while ($r_tr = mysqli_fetch_array($sql_training)) {
        $data_training [] = array(
                $r_tr[1],
                $r_tr[2],
                $r_tr[3],
                $r_tr[4],
                $r_tr[5],
                $r_tr[6],
                $r_tr[7],
                $r_tr[8],
                $r_tr[9],
                $r_tr[10],
                $r_tr[11],
                $r_tr[12],
                $r_tr[13],
                $r_tr[14],
                $r_tr[15],
                $r_tr[16],
                $r_tr[17]
            );
    }
    while ($r_ts = mysqli_fetch_array($sql_testing)) {
        $data_testing [] = array(
                $r_ts[2],
                $r_ts[3],
                $r_ts[4],
                $r_ts[5],
                $r_ts[6],
                $r_ts[7],
                $r_ts[8],
```

```
                    $r_ts[9],
                    $r_ts[10],
                    $r_ts[11],
                    $r_ts[12],
                    $r_ts[13],
                    $r_ts[14],
                    $r_ts[15],
                    $r_ts[16],
                    $r_ts[17],
                    $r_ts[18]
            );
    }
    define("_RAND_MAX",32767);
    class BackPropagation
    {
        public $output=null;
        public $delta=null;
        public $weight=null;
        public $numLayers=null;
        public $layersSize=null;
        public $beta=null; // learning rate
        public $alpha=null; // momentum
        public $prevDwt=null;
        public $data=null;
        public $testData=null;
        public $NumPattern=null;
        public $NumInput=null;
public function __construct($numLayers,$layersSize,$beta,$alpha)
    {
        $this->alpha=$alpha;
        $this->beta=$beta;
        $this->numLayers=$numLayers;
        $this->layersSize=$layersSize;
        for($i=1;$i<$this->numLayers;$i++)
        {
            for($j=0;$j<$this->layersSize[$i];$j++)
            {
                for($k=0;$k<$this->layersSize[$i-1]+1;$k++)
                {
```

```php
                        $this->weight[$i][$j][$k]=$this->rando();
                        $weight = $this->weight[$i][$j][$k];
$con = mysqli_connect("localhost","root","","sistem-pakar");
                        $no = "$i$j$k";
$weightInsert = mysqli_query($con, "insert  into  weight  values
('$no','$weight')");
                    }
                $this->weight[$i][$j][$this->layersSize[$i-1]]=-1;
            }
        }
        for($i=1;$i<$this->numLayers;$i++)
        {
            for($j=0;$j<$this->layersSize[$i];$j++)
            {
                for($k=0;$k<$this->layersSize[$i-1]+1;$k++)
                {
                    $this->prevDwt[$i][$j][$k]=(double)0.0;
                }
            }
        }
    }
    public function rando()
    {
        return (double)(rand())/(_RAND_MAX/2) - 1;
    }
    public function sigmoid($inputSource)
    {
        return (double)(1.0 / (1.0 + exp(-$inputSource)));
    }
    public function mse($target)
    {
        for($i=0;$i<$this->layersSize[$this->numLayers-1];$i++)
        {
            $mse+=($target-$this->output[$this->numLayers-
1][$i])*($target-$this->output[$this->numLayers-1][$i]);
        }
        return $mse/2;
    }
```

```php
    public function Out($i)
    {
        return $this->output[$this->numLayers-1][$i];
    }
    public function ffwd($inputSource)
    {
        $sum=0.0;
        for($i=0;$i<$this->layersSize[0];$i++)
        {
            $this->output[0][$i]=$inputSource[$i];
        }
        for($i=1;$i<$this->numLayers;$i++)
        {
            for($j=0;$j<$this->layersSize[$i];$j++)
            {
                $sum=0.0;
                for($k=0;$k<$this->layersSize[$i-1];$k++)
                {
        $sum+=$this->output[$i-1][$k]*$this->weight[$i][$j][$k];
                }
        $sum+=$this->weight[$i][$j][$this->layersSize[$i-1]];
        $this->output[$i][$j]=$this->sigmoid($sum);
            }
        }
    }
    public function bpgt($inputSource,$target)
    {
        $this->ffwd($inputSource);
        for($i=0;$i<$this->layersSize[$this->numLayers-1];$i++)
        {
            $this->delta[$this->numLayers-1][$i]=$this-
>output[$this->numLayers-1][$i]*(1-$this->output[$this-
>numLayers-1][$i])*($target-$this->output[$this->numLayers-
1][$i]);
        }
        for($i=$this->numLayers-2;$i>0;$i--)
        {
            for($j=0;$j<$this->layersSize[$i];$j++)
            {
```

```
                $sum=0.0;
                for($k=0;$k<$this->layersSize[$i+1];$k++)
                {
        $sum+=$this->delta[$i+1][$k]*$this->weight[$i+1][$k][$j];
                }
                $this->delta[$i][$j]=$this->output[$i][$j]*(1-
$this->output[$i][$j])*$sum;
            }
        }
        for($i=1;$i<$this->numLayers;$i++)
        {
            for($j=0;$j<$this->layersSize[$i];$j++)
            {
                for($k=0;$k<$this->layersSize[$i-1];$k++)
                {
                $this->weight[$i][$j][$k]+=$this->alpha*$this-
>prevDwt[$i][$j][$k];
                }
                $this->weight[$i][$j][$this->layersSize[$i-
1]]+=$this->alpha*$this->prevDwt[$i][$j][$this->layersSize[$i-
1]];
            }
        }
        for($i=1;$i<$this->numLayers;$i++)
        {
            for($j=0;$j<$this->layersSize[$i];$j++)
            {
                for($k=0;$k<$this->layersSize[$i-1];$k++)
                {
        $this->prevDwt[$i][$j][$k]=$this->beta*$this-
>delta[$i][$j]*$this->output[$i-1][$k];
            $this->weight[$i][$j][$k]+=$this->prevDwt[$i][$j][$k];
                }
                $this->prevDwt[$i][$j][$this->layersSize[$i-
1]]=$this->beta*$this->delta[$i][$j];
                $this->weight[$i][$j][$this->layersSize[$i-
1]]+=$this->prevDwt[$i][$j][$this->layersSize[$i-1]];
            }
        }
```

```php
    }
    public function Run($data,$testData,$numEpoch,$Thresh)
    {
        $MSE=0.0;
        $NumPattern=count($data);
        $NumPattern2=count($testData);
        $NumInput=count($data[0]);
        $i = 1;
        for($a = 0; $a < 3; $a++){
            for($e=0;$e<$numEpoch;$e++)
            {
                if($a == 0){
                    $target = $data[$e%$NumPattern][$NumInput-3];
                }
                elseif($a == 1){
                    $target = $data[$e%$NumPattern][$NumInput-2];
                }
                elseif($a == 2){
                    $target = $data[$e%$NumPattern][$NumInput-1];
                }
                $this->bpgt($data[$e%$NumPattern],$target);
                $MSE=$this->mse($target);
    $con = mysqli_connect("localhost","root","","sistem-pakar");
    $mseInsert   =   mysqli_query($con,   "insert   into   mse
values('$i','$MSE')");
                $i++;
                if($e==0)
                {
                    $errMse = $MSE;
                }
                if( $MSE < $Thresh)
                {
                $epochke = $e;
                break;
                }
                mysqli_close($con);
            }
    $con = mysqli_connect("localhost","root","","sistem-pakar");
            for ($y = 0 ; $y < $NumPattern2; $y++ ) {
```

```
                $this->ffwd($testData[$y]);
                $result = (double)$this->Out(0);
                    $id_testing = $y + 1;
                if($a == 0){
                    $rsltUpd  =  mysqli_query($con,  "UPDATE
dt_testing SET SKOR1 = '$result' WHERE id_testing = $id_testing");
                }
                elseif($a == 1){
                    $rsltUpd  =  mysqli_query($con,  "UPDATE
dt_testing SET SKOR2 = '$result' WHERE id_testing = $id_testing");
                }
                elseif($a == 2){
                    $rsltUpd  =  mysqli_query($con,  "UPDATE
dt_testing SET SKOR3 = '$result' WHERE id_testing = $id_testing");
                }
            }
        }
        ?>
    </div>
    <div class="main-content the-content">
            <h2><b>Proses Backpropagation</b></h2>
            <?php
            include "includes/konek-db.php";
            $query = $pdo->prepare('SELECT * FROM dt_testing');
            $query->execute();
            $query->setFetchMode(PDO::FETCH_ASSOC);
            if($query->rowCount() > 0):
            ?>
<table class="pure-table pure-table-striped">
<thead>
<tr>
    <th style="text-align: center">Data Testing</th>
    <th style="text-align: center">Target Diagnosa</th>
    <th style="text-align: center">Hasil Diagnosa</th>
    <th style="text-align: center">Akurat</th>
</tr>
</thead>
<tbody>
<?php
```

```php
$con = mysqli_connect("localhost","root","","sistem-pakar");
for ($i = 0 ; $i < $NumPattern2; $i++ ) {
    $hasil = $query->fetch();
    $id_testing = $hasil['id_testing'];
?>
<tr style="text-align: center">
    <td><?php echo $id_testing; ?></td>
    <td><?php
        if($hasil['TARGET'] == '1') {
            $diagnoseTarget = 'General Anxiety Disorder';
        }
        elseif($hasil['TARGET'] == '2') {
            $diagnoseTarget = 'Panic Disorder';
        }
        elseif($hasil['TARGET'] == '3') {
            $diagnoseTarget = 'Social Anxiety Disorder';
        }
        elseif($hasil['TARGET'] == '4') {
            $diagnoseTarget = 'Specific Phobia';
        }
        elseif($hasil['TARGET'] == '5') {
            $diagnoseTarget = 'Obsessive Compulsive Disorder';
        }
        elseif($hasil['TARGET'] == '6') {
            $diagnoseTarget = 'Post Traumatic Stress Disorder';
        } echo $diagnoseTarget; ?></td>
    <td><?php
            $skor1 = $hasil['SKOR1'];
            $skor2 = $hasil['SKOR2'];
            $skor3 = $hasil['SKOR3'];
            if($skor1 < 0.5 && $skor2 < 0.5 && $skor3 < 0.5){
                $diagnosa1 = 0;
                $diagnosa2 = 0;
                $diagnosa3 = 0;
                $result = 1;
              $rsltUpd = mysqli_query($con, "UPDATE dt_testing
SET RESULT1 = '$diagnosa1', RESULT2 = '$diagnosa2', RESULT3 =
'$diagnosa3', RESULT = $result WHERE id_testing = $id_testing");
                $diagnoseResult = 'General Anxiety Disorder';
```

```
            }
            elseif($skor1 < 0.5 && $skor2 < 0.5 && $skor3 > 0.5){
                $diagnosa1 = 0;
                $diagnosa2 = 0;
                $diagnosa3 = 1;
                $result = 2;
                $rsltUpd = mysqli_query($con, "UPDATE dt_testing
SET RESULT1 = '$diagnosa1', RESULT2 = '$diagnosa2', RESULT3 =
'$diagnosa3', RESULT = $result WHERE id_testing = $id_testing");
                $diagnoseResult = 'Panic Disorder';
            }
            elseif($skor1 < 0.5 && $skor2 > 0.5 && $skor3 < 0.5){
                $diagnosa1 = 0;
                $diagnosa2 = 1;
                $diagnosa3 = 0;
                $result = 3;
                $rsltUpd = mysqli_query($con, "UPDATE dt_testing
SET RESULT1 = '$diagnosa1', RESULT2 = '$diagnosa2', RESULT3 =
'$diagnosa3', RESULT = $resultWHERE id_testing = $id_testing");
                $diagnoseResult = 'Social Anxiety Disorder';
            }
            elseif($skor1 > 0.5 && $skor2 < 0.5 && $skor3 > 0.5){
                $diagnosa1 = 1;
                $diagnosa2 = 0;
                $diagnosa3 = 1;
                $result = 4;
                $rsltUpd = mysqli_query($con, "UPDATE dt_testing
SET RESULT1 = '$diagnosa1', RESULT2 = '$diagnosa2', RESULT3 =
'$diagnosa3', RESULT = $result WHERE id_testing = $id_testing");
                $diagnoseResult = 'Specific Phobia';
            }
            elseif($skor1 > 0.5 && $skor2 > 0.5 && $skor3 < 0.5){
                $diagnosa1 = 1;
                $diagnosa2 = 1;
                $diagnosa3 = 0;
                $result = 5;
                $rsltUpd = mysqli_query($con, "UPDATE dt_testing
SET RESULT1 = '$diagnosa1', RESULT2 = '$diagnosa2', RESULT3 =
'$diagnosa3', RESULT = $result WHERE id_testing = $id_testing");
```

```php
            $diagnoseResult = 'Obsessive Compulsive Disorder';
            }
            elseif($skor1 > 0.5 && $skor2 > 0.5 && $skor3 > 0.5){
                $diagnosa1 = 1;
                $diagnosa2 = 1;
                $diagnosa3 = 1;
                $result = 6;
                $rsltUpd = mysqli_query($con, "UPDATE dt_testing
SET RESULT1 = '$diagnosa1', RESULT2 = '$diagnosa2', RESULT3 =
'$diagnosa3', RESULT = $resultWHERE id_testing = $id_testing");
                $diagnoseResult = 'Post Traumatic Stress Disorder';
            }
            else{
                $diagnosa1 = NULL;
                $diagnosa2 = NULL;
                $diagnosa3 = NULL;
                $result = 0;
                $rsltUpd = mysqli_query($con, "UPDATE dt_testing
SET RESULT1 = '$diagnosa1', RESULT2 = '$diagnosa2', RESULT3 =
'$diagnosa3', RESULT = $result WHERE id_testing = $id_testing");
                $diagnoseResult = 'UNKNOWN';
            }
            echo $diagnoseResult; ?></td>
            </tr>
            <?php
            }
   $layersSize=array($inputl,$hidden,$outputl);
   $numLayers = count($layersSize);
   $bp=new BackPropagation($numLayers,$layersSize,$beta,$alpha);
   $bp->Run($data_training,$data_testing,$numEpoch,$Thresh);
            ?>
        </tbody>
        </table>
    </div>
    </div>
</div>
</div>
```

Lampiran 2. Data Hasil Kuesioner *Hamilton Anxiety Rating Scale* **(HARS)**

3,2,0,3,3,2,0,1,2,1,2,1,2,1,GENERAL ANXIETY DISORDER
3,2,0,2,2,3,0,2,2,1,3,1,3,1,GENERAL ANXIETY DISORDER
1,2,0,2,1,2,0,1,1,1,2,1,1,1,GENERAL ANXIETY DISORDER
2,1,0,2,0,1,0,2,1,1,0,1,1,1,GENERAL ANXIETY DISORDER
2,3,2,2,3,2,2,1,1,0,2,0,3,1,PANIC DISORDER
2,2,2,3,2,2,1,1,1,0,1,0,2,1,PANIC DISORDER
3,3,2,3,2,2,2,1,2,0,3,0,3,2,PANIC DISORDER
4,3,2,3,3,2,1,1,1,0,1,0,4,1,PANIC DISORDER
2,3,1,2,1,3,2,1,2,3,1,2,2,1,SOCIAL ANXIETY DISORDER
3,2,2,3,2,3,3,2,3,1,1,2,2,3,SOCIAL ANXIETY DISORDER
2,3,1,2,1,3,2,1,2,3,2,2,2,1,SOCIAL ANXIETY DISORDER
2,3,2,3,2,3,3,2,3,2,4,2,2,3,SOCIAL ANXIETY DISORDER
2,0,2,4,0,1,0,1,4,1,0,2,2,1,SPECIFIC PHOBIA
2,1,4,2,1,0,0,1,3,1,1,2,1,1,SPECIFIC PHOBIA
4,0,2,4,0,1,0,1,2,1,0,2,2,1,SPECIFIC PHOBIA
2,1,4,3,1,0,0,1,3,1,1,2,3,1,SPECIFIC PHOBIA
3,1,3,1,0,3,0,0,0,1,0,0,1,1,OBSESSIVE COMPULSIVE DISORDER
2,0,3,0,1,2,0,1,0,2,0,1,1,1,OBSESSIVE COMPULSIVE DISORDER
3,1,3,1,0,4,0,0,0,3,0,0,1,1,OBSESSIVE COMPULSIVE DISORDER
3,0,2,0,1,3,0,1,0,2,0,1,1,1,OBSESSIVE COMPULSIVE DISORDER
2,3,4,2,0,2,2,0,3,2,0,0,2,1,POST TRAUMATIC STRESS DISORDER
3,3,4,2,0,2,1,0,3,2,0,0,1,1,POST TRAUMATIC STRESS DISORDER
2,2,4,2,0,2,2,0,4,2,0,0,2,1,POST TRAUMATIC STRESS DISORDER
3,3,4,2,0,4,1,0,2,2,0,0,2,2,POST TRAUMATIC STRESS DISORDER
3,2,0,2,2,3,0,2,2,1,3,1,3,1,GENERAL ANXIETY DISORDER
1,2,0,2,1,2,0,1,1,1,2,1,1,1,GENERAL ANXIETY DISORDER
3,1,2,1,3,1,1,1,3,1,1,1,1,1,GENERAL ANXIETY DISORDER
2,1,1,2,2,1,1,1,2,1,1,1,1,1,GENERAL ANXIETY DISORDER
3,3,3,1,1,1,2,1,1,1,1,2,1,3,PANIC DISORDER
4,2,4,1,2,1,0,2,2,1,1,1,2,3,PANIC DISORDER
2,2,2,3,2,2,1,1,1,0,1,0,2,1,PANIC DISORDER

3,3,2,3,2,2,2,1,2,0,3,0,3,2,PANIC DISORDER

2,2,1,1,1,2,3,0,3,2,0,2,3,1,SOCIAL ANXIETY DISORDER

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4,2,2,4,2,3,2,1,2,3,1,1,2,2,SOCIAL ANXIETY DISORDER

4,0,3,2,0,0,1,0,3,1,0,0,3,1,SPECIFIC PHOBIA

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2,1,4,1,1,3,0,0,1,0,0,0,1,1,OBSESSIVE COMPULSIVE DISORDER

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2,1,4,1,1,3,0,0,1,0,0,0,1,1,OBSESSIVE COMPULSIVE DISORDER

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Lampiran 3. Form Verifikasi Abstrak Bahasa Inggris dan Tata Tulis Buku Laporan Skripsi

KEMENTERIAN PENDIDIKAN, KEBUDAYAAN
RISET DAN TEKNOLOGI
POLITEKNIK NEGERI MALANG
JURUSAN TEKNOLOGI INFORMASI
PROGRAM STUDI TEKNIK INFORMATIKA
JL. Soekarno Hatta PO Box 04 Malang Telp. (0341) 404424 pes. 1122

No. Skripsi : 598

FORM VERIFIKASI

ABSTRAK BAHASA INGGRIS DAN TATA TULIS BUKU LAPORAN SKRIPSI

Nama Mahasiswa : Okta Chandika Salsabila   **NIM** : 1741720114

Tanggal Ujian : 15 Juli 2021

Judul : Sistem Pakar Diagnosa Gangguan Kecemasan Menggunakan Metode *Backpropagation*

NO	BAGIAN YANG DIVERIFIKASI	NAMA VERIFIKATOR	TANGGAL VERIFIKASI	TTD
1	Abstrak Berbahasa Inggris	Faiz Ushbah Mubarok, S.Pd., M.Pd	31 Agustus 2021	
2	Tata Tulis Buku Laporan Skripsi	Muhammad Afif Hendrawan, S.Kom., M.T	18 Juni 2021	

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