

LAMPIRAN

SOURCE CODE IMPLEMENTASI ALGORITMA

```
Kode program config.php
<?php
$config["server"]='localhost';
$config["username"]='root';
$config["password"]='';
$config["database_name"]='svm';

print_msg("Salah kombinasi
username dan password.");
}
} else if ($mod=='password'){
Kode program aksi.php
$pass1 = $_POST['pass1'];
$pass2 = $_POST['pass2'];
$pass3 = $_POST['pass3'];
require_once'functions.php';

/** LOGIN */
if ($mod=='login'){
    $row = $db->get_row("SELECT *
    FROM tb_admin WHERE
    user='$SESSION[login]' AND
    pass='$pass1'");
    $row = $db->get_row("SELECT *
    FROM tb_admin WHERE
    user='$user' AND pass='$pass'");
    if($row){
        $SESSION['login'] = $row-
        >user;
        redirect_js("index.php");
    } else{
        print_msg('Field bertanda *
        harus diisi_training. ');
        elseif(!$row)
            print_msg('Password lama
            salah. ');
        elseif( $pass2 != $pass3 )

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        print_msg('Password baru dan          $urls[$sact]);
konfirmasi password baru tidak          }else{
sama.');
```

else{ /** klasifikasi */

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        $db->query("UPDATE tb_admin
SET pass='$pass2' WHERE
user='$_SESSION[login]'"); /** data */

        print_msg('Password berhasil          if($mod=='data_tambah'){
diubah.', 'success');          $isi_data =
    }          esc_field($_POST['isi_data']);
} elseif($sact=='logout'){          $id_klasifikasi =
    unset($_SESSION['login']);          $_POST['id_klasifikasi'];
    header("location:index.php");          $id_klasifikasi =
}          $_POST['id_klasifikasi'];

if($demo && $sact != 'login' &&          if($isi_data=='')
$sact!='logout'){          print_msg("Field bertanda *
    echo('<script>alert("Tidak          tidak boleh kosong!");
dijinkan menambah, mengubah, dan          else {
menghapus data pada versi DEMO          $db->query("INSERT INTO
ini!")</script>');          tb_data (isi_data,
    if(array_key_exists($mod, $urls)          id_klasifikasi,id_klasifikasi)
        redirect_js("index.php?m=" .          VALUES ( '$isi_data',
$urls[$mod]);          '$id_klasifikasi', '$id_klasifikasi')");
    else if(array_key_exists($sact,
$urls))          redirect_js("index.php?m=data");
        redirect_js("index.php?m=" .          }

```

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} else if($mod=='data_ubah'){
    $sisi_data =
esc_field($_POST['isi_data']);
    $sid_klasifikasi =
$_POST['id_klasifikasi'];

    if($sisi_data=='')
        print_msg("Field bertanda *
        tidak boleh kosong!");
    else {
        $db->query("UPDATE
        tb_data SET isi_data='$sisi_data',
        id_klasifikasi='$sid_klasifikasi'
        WHERE
        id_data='$_GET[ID]');
        redirect_js("index.php?m=data");
    }
} else if ($act=='data_hapus'){
    $db->query("DELETE FROM
    tb_data WHERE
    id_data='$_GET[ID]");
    header("location:index.php?m=data"
);
}

/** term */
if($mod=='term_tambah'){
    $nama_term =
$_POST['nama_term'];

    if(!$nama_term)
        print_msg("Field bertanda *
        tidak boleh kosong!");
    elseif($db->get_row("SELECT *
    FROM tb_term WHERE
    nama_term='$nama_term'"))
        print_msg("Nama term sudah
        ada");
    else{
        $db->query("INSERT INTO
        tb_term (nama_term)
        VALUES ('$nama_term')");
        redirect_js("index.php?m=term");
    }
} else if($mod=='term_ubah'){
    $nama_term =
$_POST['nama_term'];

    if(!$nama_term)
        print_msg("Field bertanda *
        tidak boleh kosong!");
}

```

```

elseif($db->get_row("SELECT *
FROM tb_term WHERE
nama_term='$nama_term' AND
id_term<>'$_GET[ID]')
    print_msg("Nama term sudah
ada");
else{
    $db->query("UPDATE
tb_term SET
nama_term='$nama_term' WHERE
id_term='$_GET[ID]");
    redirect_js("index.php?m=term");
}
} else if ($act=='term_hapus'){
    $db->query("DELETE FROM
tb_term WHERE
id_term='$_GET[ID]");
header("location:index.php?m=term"
);
}

/** kata */
if($mod=='kata_tambah'){
    $nama_kata =
$_POST['nama_kata'];
    elseif($db->get_row("SELECT *
FROM tb_kata WHERE
nama_kata='$nama_kata' AND
id_kata<>'$_GET[ID]')
        if(!$nama_kata)
            print_msg("Field bertanda *
tidak boleh kosong!");
        elseif($db->get_row("SELECT *
FROM tb_kata WHERE
nama_kata='$nama_kata'"))
            print_msg("Nama kata sudah
ada");
        else{
            $db->query("INSERT INTO
tb_kata (nama_kata)
VALUES ('$nama_kata')");
            redirect_js("index.php?m=kata");
        } else if($mod=='kata_ubah'){
            $nama_kata =
$_POST['nama_kata'];
            if(!$nama_kata)
                print_msg("Field bertanda *
tidak boleh kosong!");
            elseif($db->get_row("SELECT *
FROM tb_kata WHERE
nama_kata='$nama_kata' AND
id_kata<>'$_GET[ID]')

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        print_msg("Nama kata sudah
ada");
    else{
        $db->query("UPDATE
tb_kata SET
nama_kata='$nama_kata' WHERE
id_kata='$_GET[ID]");
    }
    redirect_js("index.php?m=kata");
}
} else if ($act=='kata_hapus'){
    $db->query("DELETE FROM
tb_kata WHERE
id_kata='$_GET[ID]");
}
header("location:index.php?m=kata"
);
}

/** stopword */
if($mod=='stopword_tambah'){
    $nama_stopword =
$_POST['nama_stopword'];

    if(!$nama_stopword)
        print_msg("Field bertanda *
tidak boleh kosong!");
}

elseif($db->get_row("SELECT *
FROM tb_stopword WHERE
nama_stopword='$nama_stopword'
AND id_stopword<>$_GET[ID]"))
    print_msg("Nama stopword
    $db->query("INSERT INTO
tb_stopword (nama_stopword)
VALUES
('$nama_stopword')");
    redirect_js("index.php?m=stopword"
);
} else if($mod=='stopword_ubah'){
    $nama_stopword =
$_POST['nama_stopword'];

    if(!$nama_stopword)
        print_msg("Field bertanda *
tidak boleh kosong!");
    elseif($db->get_row("SELECT *
FROM tb_stopword WHERE
nama_stopword='$nama_stopword'
AND id_stopword<>$_GET[ID]"))
        print_msg("Nama stopword

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```

sudah ada");
    elseif($db->get_row("SELECT *
    FROM tb_klasifikasi WHERE
    nama_klasifikasi='$nama_klasifikasi'
    "))
        print_msg("Nama klasifikasi
sudah ada");
    else{
        $db->query("INSERT INTO
        tb_klasifikasi (nama_klasifikasi)
        VALUES
        ('$nama_klasifikasi')");
        redirect_js("index.php?m=stopword");
    }
    } else if ($act=='stopword_hapus'){
        $db->query("DELETE FROM
        tb_stopword WHERE
        id_stopword='$_GET[ID]");
        redirect_js("index.php?m=klasifikasi");
    }
    } else if($mod=='klasifikasi_ubah'){
        $nama_klasifikasi =
        $_POST['nama_klasifikasi'];
        if(!$nama_klasifikasi)
            print_msg("Field bertanda *
            tidak boleh kosong!");
        elseif($db->get_row("SELECT *
        FROM tb_klasifikasi WHERE
        nama_klasifikasi='$nama_klasifikasi'
        AND id_klasifikasi<>'$_GET[ID]"))
            print_msg("Nama klasifikasi
            sudah ada");
        else{
            $db->query("UPDATE
            tb_stopword SET
            nama_stopword='$nama_stopword'
            WHERE
            id_stopword='$_GET[ID]");
            redirect_js("index.php?m=stopword");
        }
    }
    header("location:index.php?m=stopword");
}

if($mod=='klasifikasi_tambah'){
    $nama_klasifikasi =
    $_POST['nama_klasifikasi'];
    if(!$nama_klasifikasi)
        print_msg("Field bertanda *
        tidak boleh kosong!");
}

```

```

sudah ada");
    else{
        $db->query("UPDATE
tb_klasifikasi SET
nama_klasifikasi='$nama_klasifikasi'
WHERE
id_klasifikasi='$_GET[ID]");

        redirect_js("index.php?m=klasifikasi
");
    }
    } else if ($act=='klasifikasi_hapus'){
        $db->query("DELETE FROM
tb_klasifikasi WHERE
id_klasifikasi='$_GET[ID]");

        header("location:index.php?m=klasifikasi");
    }

    /** klasifikasi */
    if($mod=='klasifikasi_tambah'){
        $nama_klasifikasi =
$_POST['nama_klasifikasi'];

        if(!$nama_klasifikasi)
            print_msg("Field bertanda *
tidak boleh kosong!");

        elseif($db->get_row("SELECT *
FROM tb_klasifikasi WHERE
nama_klasifikasi='$nama_klasifikasi'
AND id_klasifikasi<>'$_GET[ID]"))
            print_msg("Nama klasifikasi
sudah ada");
        else{
            $db->query("INSERT INTO
tb_klasifikasi (nama_klasifikasi)
VALUES
('$nama_klasifikasi')");

            redirect_js("index.php?m=klasifikasi
");
        }
    } else if($mod=='klasifikasi_ubah'){
        $nama_klasifikasi =
$_POST['nama_klasifikasi'];

        if(!$nama_klasifikasi)
            print_msg("Field bertanda *
tidak boleh kosong!");

        elseif($db->get_row("SELECT *
FROM tb_klasifikasi WHERE
nama_klasifikasi='$nama_klasifikasi'
AND id_klasifikasi<>'$_GET[ID]"))
            print_msg("Nama klasifikasi
sudah ada");
        else{
            $db->query("INSERT INTO
tb_klasifikasi (nama_klasifikasi)
VALUES
('$nama_klasifikasi')");

            redirect_js("index.php?m=klasifikasi
");
        }
    }
}

```

```

        print_msg("Nama klasifikasi
sudah ada");
    else{
        $db->query("UPDATE
tb_klasifikasi SET
nama_klasifikasi='$nama_klasifikasi'
WHERE
id_klasifikasi='$_GET[ID]");
        count($DATA);
        $TRAINING = array_slice($DATA, 0,
$total_training , true);
        $TERMS =
        get_all_terms($TRAINING);
        // print_r($DATA);
        //echo '<pre>' . print_r($TERMS, 1) .
        '</pre>';
        redirect_js("index.php?m=klasifikasi
");
        //die();
    }
    } else if ($act=='klasifikasi_hapus'){
        $db->query("DELETE FROM
tb_klasifikasi WHERE
id_klasifikasi='$_GET[ID]");
        $data_training =
        get_data($TRAINING);
        $vdata = get_vdata($data_training);
        $tf = get_tf($vdata);
        //echo '<pre>' . print_r($data_training, 1)
        . '</pre>';
        header("location:index.php?m=klasifi
kasi");
        $df = get_df($vdata);
        $idf = get_idf($vdata, $df);
        $tf_idf = get_tf_idf($tf, $idf);
        // echo '<pre>' . print_r($tf_idf, 1) .
        '</pre>';
    }
}
?>

```

Kode program svm_hasil.php

```

<?php
$time_start = microtime(true);
$persen = $_POST['persen'];
$total_training = $persen_svm / 100 *
        $TESTING = array_slice($DATA, 0,

```

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$persen, true);
$pc);

//echo '<pre>' . print_r($TESTING, 1)
.'</pre>';
?>
<div class="page-header">
    <h1>Perhitungan SVM</h1>
</div>
<div class="panel panel-primary">
    <div class="panel-heading">
        <h3 class="panel-title">
            <a role="button" data-
toggle="collapse" href="#c1" aria-
expanded="false" aria-controls="c1">
                Kemunculan term dalam
                kalimat
            </a>
        </h3>
    </div>
    <div class="table-responsive
collapse" id="c1">
        <table class="table table-bordered
        table-striped table-hover small">
            <thead><tr>
                <th>Dokumen</th>
                <th>Klasifikasi</th>
            </tr>
            <tbody>
                <tr>
                    <td><?=$key?></td>
                    <td><?=$CLASS[$key]?></td>
                </tr>
            </tbody>
        </table>
    </div>
</div>

```



```

        <th>Total</th>
    </tr></thead>
    <?php
    foreach($idf as $key => $val):?>
        <tr>
            <td><?=$key?></td>
            <td><?=round($val,
3)?></td>
        </tr>
    <?php endforeach?>
</table>
</div>
</div>
<div class="panel panel-primary">
    <div class="panel-heading">
        <h3 class="panel-title">
            <a role="button" data-
toggle="collapse" href="#c4" aria-
expanded="false" aria-controls="c4">
                TF IDF
            </a>
        </h3>
    </div>
    <div class="table-responsive
collapse" id="c4">
        <table class="table table-bordered
table-striped table-hover small">
            <thead><tr>
                <th>Term</th>
            <?php
            $a = 1;
            foreach(current($tf_idf) as
                $key => $val):?>
                <th>Doc<?=$a++?></th>
            <?php endforeach?>
            </tr></thead>
            <?php
            foreach($tf_idf as $key =>
                $val):?>
                <tr>
                    <td><?=$key?></td>
                    <?php foreach($val as $k
=> $v):?>
                        <td><?=round($v,
3)?></td>
                    <?php endforeach?>
                </tr>
            <?php endforeach?>
        </table>
    </div>
</div>
<div class="panel panel-primary">
    <div class="panel-heading">

```

```

<h3 class="panel-title">
    <a role="button" data-
toggle="collapse" href="#c5" aria-
expanded="false" aria-controls="c5">
        Entropy dan Gain
    </a>
</h3>
</div>
<div class="table-responsive
collapse" id="c5">
    <table class="table table-bordered
table-striped table-hover small">
        <thead><tr>
            <th>Klasifikasi</th>
            <th>P(ci)</th>
            <th>Gain</th>
        </tr></thead>
        <?php
        foreach($pwc as $key =>
$val):?>
            <tr>
                <td><?=$KLASIFIKASI[$key]?></td>
                <td><?=$pci[$key] /
array_sum($pci)?></td>
                <td><?=$v/array_sum($pci)*$pci[$key]
?></td>
            </tr>
        <?php endforeach?>
    </table>
</div>
</div>
<div class="panel panel-primary">
    <div class="panel-heading">
        <h3 class="panel-title">
            <a role="button" data-
toggle="collapse" href="#c6" aria-
expanded="false" aria-controls="c6">
                Hyperline
            </a>
        </h3>
    </div>
    <div class="table-responsive
collapse" id="c6">
        <table class="table table-bordered
table-striped table-hover small">
            <thead><tr>
                <th>Klasifikasi</th>
                <th>P(ci)</th>
            </tr>
            <?php
            foreach(current($pwc) as $key
=> $val):?>

```

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        <th>= $key?&gt;&lt;/th&gt;
        &lt;?php endforeach?&gt;
    &lt;/tr&gt;&lt;/thead&gt;
    &lt;?php
        foreach($pwc as $key =&gt;
            $val):?&gt;
        &lt;tr&gt;
            &lt;td&gt;<?= $KLASIFIKASI[$key]?&gt;&lt;/td&gt;
            &lt;td&gt;<?= $pci[$key] /
            array_sum($pci)?&gt;&lt;/td&gt;
            &lt;?php foreach($val as $k
            =&gt; $v):?&gt;
            &lt;td&gt;<?= $v?&gt;&lt;/td&gt;
            &lt;?php endforeach?&gt;
        &lt;/tr&gt;
    &lt;?php endforeach?&gt;
&lt;/table&gt;
&lt;/div&gt;
&lt;/div&gt;
&lt;div class="panel panel-primary"&gt;
    &lt;div class="panel-heading"&gt;
        &lt;h3 class="panel-title"&gt;
            &lt;a role="button" data-
            toggle="collapse" href="#c7" aria-
                expanded="false" aria-controls="c7"&gt;
                    Data Testing
                &lt;/a&gt;
            &lt;/h3&gt;
        &lt;/div&gt;
        &lt;div class="table-responsive
            collapse" id="c7"&gt;
            &lt;table class="table table-bordered
                table-striped table-hover small"&gt;
                &lt;thead&gt;&lt;tr&gt;
                    &lt;th&gt;Dokumen&lt;/th&gt;
                    &lt;?php
                        foreach(current($data_testing)
                            as $key =&gt; $val):?&gt;
                    &lt;th&gt;<?= $key?&gt;&lt;/th&gt;
                    &lt;?php endforeach?&gt;
                &lt;/tr&gt;&lt;/thead&gt;
                &lt;?php
                    foreach($data_testing as $key =&gt;
                        $val):?&gt;
                &lt;tr&gt;
                    &lt;td&gt;D&lt;<?= $key?&gt;&lt;/td&gt;
                    &lt;?php foreach($val as $k
                        =&gt; $v):?&gt;
                    &lt;td&gt;<?= $v?&gt;&lt;/td&gt;
                    &lt;?php endforeach?&gt;
                &lt;/tr&gt;
            &lt;/table&gt;
        &lt;/div&gt;
    &lt;/div&gt;
</pre

```

```

        <?php endforeach?>                                </tr></thead>
    </table>                                              <?php
</div>                                                  $klasifikasi =
</div>                                                  get_klasifikasi($total);

<div class="panel panel-primary"                        $no = 1;
id="hasil">                                             $db->query("UPDATE tb_data
    <div class="panel-heading">                          SET klasifikasi='0'");
        <h3 class="panel-title">
            <a role="button" data-                       //echo '<pre>' .
toggle="collapse" href="#c9" aria-                     print_r($TESTING, 1) .</pre>';
expanded="true" aria-controls="c9">
                Klasifikasi
            </a>
        </h3>
    </div>
    <div class="table-responsive collapse                $benar = 0;
in" id="c9">                                             $salah = 0;
        <table class="table table-bordered              $jum_klasifikasi = array();
table-striped table-hover">                             foreach($klasifikasi as $key =>
            <thead><tr>                                  $val):
                <th>No</th>                             $db->query("UPDATE
                <th>Dokumen</th>                       tb_data SET klasifikasi='$val' WHERE
                <th>Klasifikasi</th>                   id_data='$key'");
                <th>Klasifikasi</th>                   if
                <th>Klasifikasi SVM</th>                (empty($jum_klasifikasi[$KLASIFIKA
                <th>Benar</th>                          SI[$KAT[$key]]['benar'])) {

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$jum_klasifikasi[$KLASIFIKASI[$KA
$hasil[$key] =
T[$key]]['benar']=0;
$KLASIFIKASI[$val];
}
$hasil[$key] =
$KLASIFIKASI[$CLASS[$key]];
if
else:
(empty($jum_klasifikasi[$KLASIFIKA
SI[$KAT[$key]]]['salah'])) {
$hasil[$key] =
$KLASIFIKASI[$CLASS[$key]];
$jum_klasifikasi[$KLASIFIKASI[$KA
endif;
T[$key]]]['salah']=0;
}
}
<tr>
<td><?=$no++?></td>
if($CLASS[$key]==$val){
<td><?=get_words($TESTING[$key],
$benar++;
10)?></td>
$jum_klasifikasi[$KLASIFIKASI[$KA
<td><?=$KLASIFIKASI[$KAT[$key]]
T[$key]]]['benar']+=1;
?></td>
} else{
$hasil[$key]++;
<td><?=$KLASIFIKASI[$CLASS[$key
]]?></td>
$jum_klasifikasi[$KLASIFIKASI[$KA
<td><?=$KLASIFIKASI[$val]?></td>
T[$key]]]['salah']+=1;
}
}
<td><?=$CLASS[$key]==$val ?
'&#10004;' : "?"></td>
if(!empty($KLASIFIKASI[$val])):
</tr>

```

```

        <?php
        endforeach;?>
    </table>
</div>
<div class="panel-body">
    <p>
        Total data testing: <?=$benar
+ $salah?><br />
        Total Prediksi yang benar:
<?=$benar?><br />
        Akurasi: <?=round($benar /
($benar + $salah) * 100, 2)?> %<br />
    </p>
<pre><strong>Statistic</strong><?php
    $time_end = microtime(true);
    $time = $time_end - $time_start;
    echo "\r\nExecution Time: $time
seconds";
    echo "\r\nMemory Usage: " .
memory_get_usage() / 1024 . ' kilo
bytes';
    ?>
</pre>
<table class="table table-bordered
table-striped table-hover">
    <thead><tr>
        <th>No</th>
        <th>Klasifikasi</th>
        <th>Klasifikasi Benar</th>
        <th>Klasifikasi Salah</th>
    </thead>
    <tbody>
        <?php
        $no=1;
        foreach ($jum_klasifikasi as
        $key => $value) :?>
    <tr>
        <th><?=$no++?></th>
        <th><?=$key?></th>
        <?php foreach ($value as $k
        => $v):?>
        <td><?=$v?></td>
        <?php endforeach;?>
    </tr>
        <?php endforeach;?>
    </tbody>
</table>
</div>
</div>
<table class="table table-bordered
table-striped table-hover">
    <thead><tr>
        $arr = array();

```

```

/**
 * membuat confusion matrix sesuai
 label yang ada
 * dengan mengisikan true Negatif, false
 Negatif, true negatif, false, negatif
 bernilai 0
 */
foreach (array_count_values($hasil) as
$key => $val) {
    $sarr[$key] = array(
        'TP' => 0,
        'FP' => 0,
        'TN' => 0,
        'FN' => 0,
    );
}

foreach ($hasil as $key => $val) {
    $sactual = $sali[$key];
    foreach ($sarr as $k => $v) {
        //prediksi Negatif
        if ($k == $val) {
            if ($k == $sactual)
                $sarr[$k]['TP']++; //true
            Negatif jika prediksi Negatif dan aktual
            Negatif
        } else
            $sarr[$k]['TN']++; //true
            negatif jika prediksi negatif dan aktual
            negatif
        }
    }

    foreach ($sarr as $key => $val) {
        $total = array_sum($val);
        //menghitung akurasi
        $sarr[$key]['Accuracy'] = ($val['TP'] +
            $val['TN']) / $total;
        //menghitung precision
        $sarr[$key]['Precision'] = $val['TP'] /
            ($val['TP'] + $val['FP']);
        //menghitung recall
    }
}

```



```

// print_r($DATA);                               $pci);

//echo '<pre>' . print_r($TERMS, 1) .
'</pre>';                                         //echo '<pre>' . print_r($TESTING, 1)

//die();                                         .!</pre>';

$data_training =                                ?>
get_data($TRAINING);                            <div class="page-header">
$vddata = get_vdata($data_training);           <h1>Perhitungan Naive Bayes
Classifier</h1>
                                                </div>

$tf = get_tf($vddata);                          <div class="panel panel-primary">
//echo '<pre>'. print_r($data_training, 1)     <div class="panel-heading">
.'</pre>';                                       <h3 class="panel-title">
                                                <a role="button" data-
$df = get_df($vddata);                          toggle="collapse" href="#c1" aria-
$idf = get_idf($vddata, $df);                   expanded="false" aria-controls="c1">
$tf_idf = get_tf_idf($tf, $idf);                Kemunculan term dalam
// echo '<pre>'. print_r($tf_idf, 1) .          kalimat
'</pre>';                                       </a>

$pci = get_pci();                               </h3>
$pwd = get_probabilitas($tf_idf);              </div>

$TESTING = array_slice($DATA, 0,               <div class="table-responsive
$persen, true);                                collapse" id="c1">

                                                <table class="table table-bordered
$testdata_testing = get_data($TESTING);         table-striped table-hover small">
$testdata_testing = filter_data($df,            <thead><tr>
$testdata_testing);                             <th>Dokumen</th>
$total = get_total($testdata_testing, $pwd,     <th>Klasifikasi</th>

```

```

        <?php
foreach(current($data_training) as $key
=> $val):?>
        <th><?=$val?></th>
        <?php endforeach?>
</tr></thead>
<?php
foreach($data_training as $key
=> $val):?>
        <tr>
        <td><?=$key?></td>
        <td><?=$CLASS[$key]?></td>
        <?php foreach($val as $k
=> $v):?>
        <td><?=$v?></td>
        <?php endforeach?>
        </tr>
        <?php endforeach?>
</table>
</div>
</div>
<div class="panel panel-primary">
    <div class="panel-heading">
        <h3 class="panel-title">
            <a role="button" data-
toggle="collapse" href="#c2" aria-
        expanded="false" aria-controls="c2">
            TF
        </a>
    </h3>
</div>
<div class="table-responsive
collapse" id="c2">
    <table class="table table-bordered
table-striped table-hover small">
        <thead><tr>
            <th>Term</th>
            <?php
            $a = 1;
            foreach(current($tf) as $key
=> $val):?>
            <th>Doc<?=$a++?></th>
            <?php endforeach?>
        </tr></thead>
        <?php
        foreach($tf as $key => $val):?>
        <tr>
            <td><?=$key?></td>
            <?php foreach($val as $k
=> $v):?>
            <td><?=$v?></td>
            <?php endforeach?>
        </tr>
        <?php endforeach?>
    </table>
</div>
</div>
<div class="panel panel-primary">
    <div class="panel-heading">
        <h3 class="panel-title">
            <a role="button" data-
toggle="collapse" href="#c2" aria-
        expanded="false" aria-controls="c2">
            TF
        </a>
    </h3>
</div>
<div class="table-responsive
collapse" id="c2">
    <table class="table table-bordered
table-striped table-hover small">
        <thead><tr>
            <th>Term</th>
            <?php
            $a = 1;
            foreach(current($tf) as $key
=> $val):?>
            <th>Doc<?=$a++?></th>
            <?php endforeach?>
        </tr></thead>
        <?php
        foreach($tf as $key => $val):?>
        <tr>
            <td><?=$key?></td>
            <?php foreach($val as $k
=> $v):?>
            <td><?=$v?></td>
            <?php endforeach?>
        </tr>
        <?php endforeach?>
    </table>
</div>
</div>

```

```

        </tr>
        <td><?=$key?></td>
    <?php endforeach?>
    <td><?=round($val,
</table>
3)?></td>
</div>
</tr>
</div>
<?php endforeach?>
</table>
<div class="panel panel-primary">
</div>
<div class="panel-heading">
</div>
<h3 class="panel-title">
<a role="button" data-
<div class="panel panel-primary">
toggle="collapse" href="#c3" aria-
<div class="panel-heading">
expanded="false" aria-controls="c3">
<h3 class="panel-title">
IDF
<a role="button" data-
toggle="collapse" href="#c4" aria-
expanded="false" aria-controls="c4">
TF*IDF
</a>
</h3>
</div>
<div class="table-responsive
collapse" id="c3">
</div>
<table class="table table-bordered
table-striped table-hover small">
</div>
<thead><tr>
collapse" id="c4">
<th>Term</th>
<table class="table table-bordered
table-striped table-hover small">
<thead><tr>
<th>Term</th>
<th>Total</th>
<?php
foreach($sidf as $key => $val):?>
<tr>
$a = 1;

```

```

        foreach(current($tf_idf as
$Key => $val):?)>
            <th>Doc<?=$a++?></th>
        <?php endforeach?>
    </tr></thead>
    <?php
        foreach($tf_idf as $Key =>
$val):?)>
        <tr>
            <td><?=$key?></td>
            <?php foreach($val as $k
=> $v):?)>
            <td><?=round($v,
3)?></td>
            <?php endforeach?>
        </tr>
    <?php endforeach?>
</table>
</div>
</div>
</div>
        Tabel nilai propabilitas
    </a>
</h3>
</div>
<div class="table-responsive
collapse" id="c5">
    <table class="table table-bordered
table-striped table-hover small">
        <thead><tr>
            <th>Klasifikasi</th>
            <th>P(ci)</th>
            <?php
                foreach(current($pwc as $Key
=> $val):?)>
                <th><?=$key?></th>
            <?php endforeach?>
        </tr></thead>
        <?php
            foreach($pwc as $Key =>
$val):?)>
            <tr>
                <td><?=$KLASIFIKASI[$key]?></td>
                <td><?=$pci[$key] /
array_sum($pci)?></td>
                <?php foreach($val as $k

```

```

=> $v):?>
        <td><?=$v?></td>
    <?php endforeach?>
</tr>
<?php endforeach?>
</table>
</div>
</div>
<div class="panel panel-primary">
    <div class="panel-heading">
        <h3 class="panel-title">
            <a role="button" data-
toggle="collapse" href="#c6" aria-
expanded="false" aria-controls="c6">
                Data Testing
            </a>
        </h3>
    </div>
    <div class="table-responsive
collapse" id="c6">
        <table class="table table-bordered
table-striped table-hover small">
            <thead><tr>
                <th>Dokumen</th>
            <?php
                foreach(current($data_testing)
as $key => $val):?>
                    <th><?=$key?></th>
                <?php endforeach?>
            </tr></thead>
            <?php
                foreach($data_testing as $key =>
                    $val):?>
                <tr>
                    <td>D<?=$key?></td>
                <?php foreach($val as $k
=> $v):?>
                    <td><?=$v?></td>
                <?php endforeach?>
            </tr>
            <?php endforeach?>
        </table>
    </div>
</div>
<div class="panel panel-primary">
    <div class="panel-heading">
        <h3 class="panel-title">
            <a role="button" data-
toggle="collapse" href="#c7" aria-
expanded="false" aria-controls="c7">
                Total
            </a>
        </div>

```

```

</h3>
</div>
</div>
<div class="table-responsive
collapse" id="c7">
<table class="table table-bordered
table-striped table-hover small">
<thead><tr>
<th>Dokumen</th>
<?php
foreach(current($total) as $key
=> $val):?>
<th><?=$KLASIFIKASI[$key]?</th>
<?php endforeach?>
</tr></thead>
<?php
foreach($total as $key =>
$val):?>
<tr>
<td>D<?=$key?</td>
<?php foreach($val as $k
=> $v):?>
<td><?=$v?</td>
<?php endforeach?>
</tr>
<?php endforeach?>
</table>
</div>
</div>
<div class="panel panel-primary"
id="hasil">
<div class="panel-heading">
<h3 class="panel-title">
<a role="button" data-
toggle="collapse" href="#c8" aria-
expanded="true" aria-controls="c8">
Klasifikasi
</a>
</h3>
</div>
<div class="table-responsive collapse
in" id="c8">
<table class="table table-bordered
table-striped table-hover">
<thead><tr>
<th>No</th>
<th>Dokumen</th>
<th>Klasifikasi</th>
<th>Klasifikasi NBC</th>
<th>Benar</th>
</tr></thead>
<?php
$klasifikasi =

```


<pre> <div class="panel-body"> <p> Total data testing: <?=\$benar + \$salah?>
 Total Prediksi yang benar: <?=\$benar?>
 Akurasi: <?=round(\$benar / (\$benar + \$salah) * 100, 2)?> %
 </p> <pre>Statistic<?php \$time_end = microtime(true); \$time = \$time_end - \$time_start; echo "\r\nExecution Time: \$time seconds"; echo "\r\nMemory Usage: " . memory_get_usage() / 1024 . ' kilo bytes'; ?> </pre> </div> </div> <?php \$sarr = array(); /** * membuat confusion matrix sesuai </pre>	<pre> label yang ada * dengan mengisikan true Negatif, false Negatif, true negatif, false, negatif bernilai 0 */ foreach (array_count_values(\$hasil) as \$key => \$val) { \$sarr[\$key] = array('TP' => 0, 'FP' => 0, 'TN' => 0, 'FN' => 0,); } foreach (\$hasil as \$key => \$val) { \$actual = \$sarr[\$key]; foreach (\$sarr as \$k => \$v) { //prediksi Negatif if (\$k == \$val) { if (\$k == \$actual) \$sarr[\$k]['TP']++; //true Negatif jika prediksi Negatif dan aktual Negatif } else \$sarr[\$k]['FP']++; //false Negatif jika prediksi Negatif dan aktual </pre>
---	---

```

negatif }
}
//prediksi negatif ?>
else {
    if ($k == $actual) <div class="panel panel-primary">
        $arr[$k]['FN']++; //false <div class="panel-heading">
negatif jika prediksi negatif dan aktual <h3 class="panel-title"><a
Negatif href="#C7" data-
else toggle="collapse">Confusion
    $arr[$k]['TN']++; //true Matrix</a></h3>
negatif jika prediksi negatif dan aktual </div>
negatif <div class="table-responsive collapse
} in" id="C7">
} <table class="table table-bordered
} table-hover table-striped">
} <thead>
foreach ($arr as $key => $val) { <tr>
    $total = array_sum($val); <th>Klasifikasi</th>
    //menghitung akurasi <th>TP</th>
    $arr[$key]['Accuracy'] = ($val['TP'] + <th>FP</th>
$val['TN']) / $total; <th>TN</th>
    //menghitung precision <th>FN</th>
    $arr[$key]['Precision'] = $val['TP'] / <th>Accuracy</th>
($val['TP'] + $val['FP']); <th>Precision</th>
    //menghitung recall <th>Recall</th>
    $arr[$key]['Recall'] = $val['TP'] / </tr>
($val['TP'] + $val['FN']); </thead>

```

```

        <?php foreach ($arr as $key =>
$val) : ?>
            <tr>
                <td><?= $key ?></td>
                <?php foreach ($val as $k
=> $v) : ?>
                    <td><?= round($v, 3)
?></td>
                <?php endforeach; ?>
            </tr>
        <?php endforeach; ?>
    </table>
</div>
</div>

```





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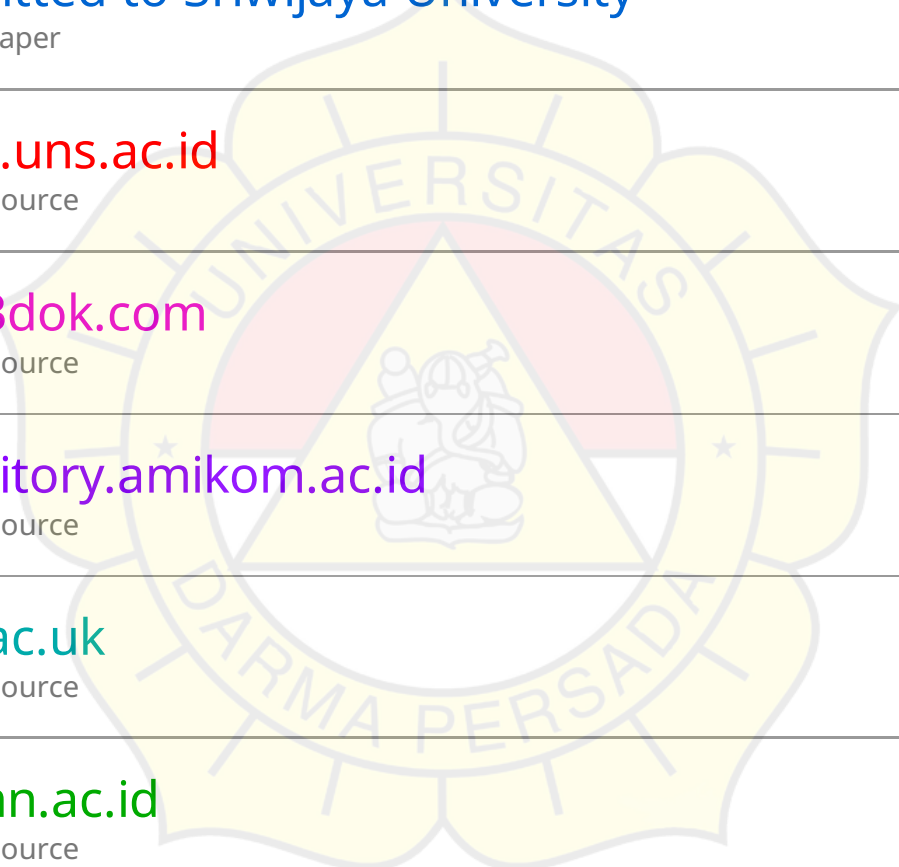
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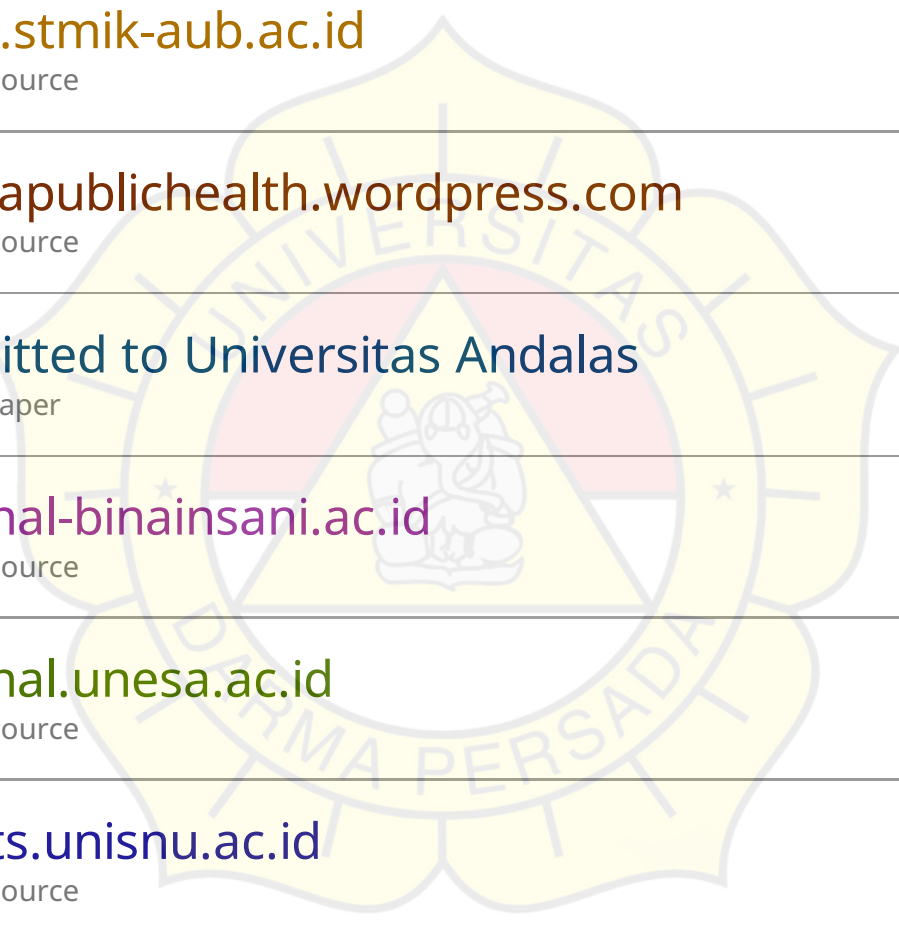
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