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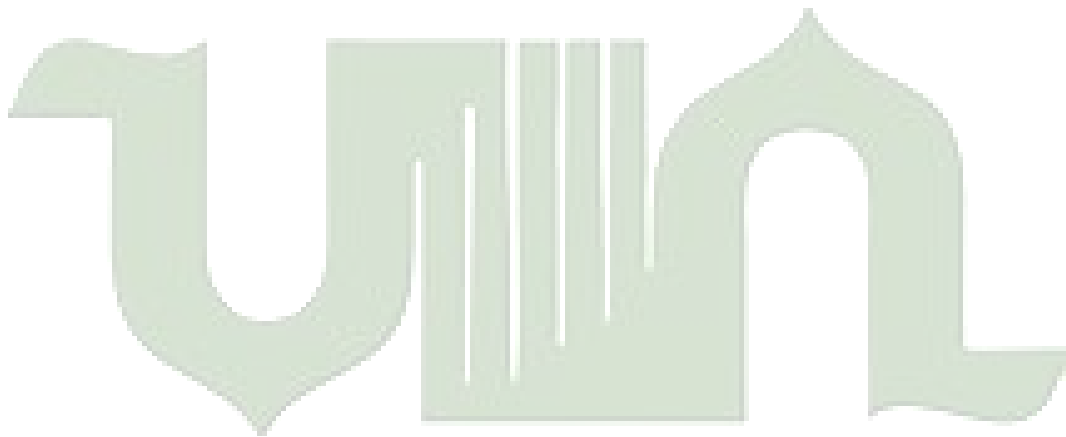
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UNIVERSITAS ISLAM NEGERI
SUMATERA UTARA MEDAN

LAMPIRAN

Lampiran 1 Listing Program

```
-----  
-----  
koneksi.php  
-----  
-----
```

```
<?php  
//variabel koneksi  
$koneksi = mysqli_connect("localhost","root","","knngain");  
  
if(!$koneksi){  
    echo "Koneksi Database Gagal...!!!";  
}  
?>
```

```
-----  
-----  
index.php  
-----  
-----
```

```
<!-- ===== Header ===== -->  
<header id="header" class="fixed-top ">  
    <div class="container d-flex align-items-center justify-  
content-between">  
  
        <div class="logo">  
            <h1 class="text-light"><a href="index.php"><span>Data  
Mining Prediksi Stok Barang</span></a></h1>  
            <!-- Uncomment below if you prefer to use an image logo --  
>  
            <!-- <a href="index.html"></a>-->  
        </div>  
  
        <nav id="navbar" class="navbar">  
            <ul>  
                <li><a class="nav-link scrollto active"  
href="index.php">Home</a></li>  
                <li class="dropdown"><a href="#"><span>Rumus</span> <i  
class="bi bi-chevron-down"></i></a>  
                    <ul>  
                        <li><a href="gainratio.php">Gain Ratio</a></li>  
                        <li><a href="knn.php">K-Nearest Neighbor</a></li>  
                    </ul>  
                </li>  
                <li class="dropdown"><a href="#"><span>Data</span> <i  
class="bi bi-chevron-down"></i></a>  
                    <ul>  
                        <li><a href="datatraining.php">Data Produk</a></li>  
                        <li><a href="datatesting.php">Data Prediksi</a></li>  
                    </ul>  
            </ul>
```

```

        <li><a class="nav-link scrollto"
href="prediksi.php">Prediksi</a></li>
        <li><a class="nav-link scrollto"
href="./report/laporan.php">Laporan</a></li>

        <li><a class="nav-link scrollto" href="login.php">Login
Admin</a></li>
    </ul>
    <i class="bi bi-list mobile-nav-toggle"></i>
</nav><!-- .navbar -->

</div>
</header><!-- End Header -->

<!-- ===== Hero Section ===== -->
<section id="hero">
    <div class="hero-container" data-aos="fade-up">
        <h1>Selamat Datang di Mitra Karya Sejati </h1>
        <h2>Melayanain dan Memberikan Solusi dalam Perkebunan</h2>

        <h2>
            <p> Cv Mitra Karya Sejati Merupakan Perusahaan bergerak
dibidang Penjualan Pupuk dan Racun</p>
            <p> Memberikan Solusi dalam Perkebunan Organik</p>
        </h2>
        <a href="#contact" class="btn-get-started scrollto"><i
class="bx bx-chevrons-down"></i></a>
    </div>
</section><!-- End Hero -->

<!-- ===== Counts Section ===== -->
<section id="counts" class="counts section-bg">
    <div class="container">

        <div class="row no-gutters">

            <div class="col-lg-3 col-md-6 d-md-flex align-items-md-
stretch">
                <div class="count-box">
                    <i class="bi bi-emoji-smile"></i>
                    <span data-purecounter-start="0" data-purecounter-
end="2960" data-purecounter-duration="1"
class="purecounter"></span>
                    <p><strong>DataSet</strong> Produk</p>

                </div>
            </div>

            <div class="col-lg-3 col-md-6 d-md-flex align-items-md-
stretch">
                <div class="count-box">
                    <i class="bi bi-journal-richtext"></i>
                    <span data-purecounter-start="0" data-purecounter-
end="129" data-purecounter-duration="1"
class="purecounter"></span>
                    <p><strong>Jenis</strong> Pupuk dan Racun</p>

                </div>
            </div>
        </div>
    </div>

```

```

        <div class="col-lg-3 col-md-6 d-md-flex align-items-md-
stretch">
            <div class="count-box">
                <i class="bi bi-headset"></i>
                <span data-purecounter-start="0" data-purecounter-
end="8" data-purecounter-duration="1" class="purecounter"></span>
                <p><strong>Cabang</strong> Perusahaan</p>
            </div>
        </div>

        <div class="col-lg-3 col-md-6 d-md-flex align-items-md-
stretch">
            <div class="count-box">
                <i class="bi bi-people"></i>
                <span data-purecounter-start="0" data-purecounter-
end="35" data-purecounter-duration="1" class="purecounter"></span>
                <p><strong>Karyawan</strong> Perusahaan</p>
            </div>
        </div>
    </div>
</div>
</section><!-- End Counts Section -->

<!-- ===== Contact Section ===== -->
<section id="contact" class="contact section-bg">
    <div class="container" data-aos="fade-up">
        <div class="text-center">
            <h3 >Contact</h3>
        </div>

        <div class="row">
            <div class="col-lg-6">
                <div class="info-box mb-4">
                    <i class="bx bx-map"></i>
                    <h3> <a
href="https://goo.gl/maps/vyiBSqLQpPzLwqZy9">Our Address</a></h3>
                    <p>Menggala Sakti, Kec. Tanah Putih, Kabupaten Rokan
Hilir, Riau 28992</p>
                </div>
            </div>

            <div class="col-lg-3 col-md-6">
                <div class="info-box mb-4">
                    <i class="bx bx-envelope"></i>
                    <h3 > <a href="mailto:ccc@id.panasonic.com">Email
Us</a></h3>
                    <p>mitrakaryasejati@mks.com</p>
                </div>
            </div>

            <div class="col-lg-3 col-md-6">
                <div class="info-box mb-4">
                    <i class="bx bx-phone-call"></i>
                    <h3> <a href="">Call Us</a></h3>
                    <p>(0645) 43756</p>
                </div>
            </div>
        </div>
    </div>

```

```

        </div>
    </div>

</div>

<div class="row">

    <div class="col-lg-6 ">
        <iframe class="mb-4 mb-lg-0"
src="https://www.google.com/maps/embed?pb=!1m14!1m8!1m3!1d15953.85
5068005007!2d100.8189739!3d1.4930399!3m2!1i1024!2i768!4f13.1!3m3!1
m2!1s0x0%3A0x990a5f7bffb96819!2sCV.%20MITRA%20KARYA%20SEJATI!5e0!3
m2!1sid!2sid!4v1670745554417!5m2!1sid!2sid" frameborder="0"
style="border:0; width: 1120px; height: 384px;"
allowfullscreen></iframe>

    </div>

</div>

</div>
</section><!-- End Contact Section -->

```



login.php

```

<?php
    @session_start();
    include "koneksi.php";

    if(@$_SESSION['admin'] || @$_SESSION['user']){
        header("location: index1.php");
    }else{

?>

```

Pemanggilan Session login

```

    <form action="" method="post">
        <div style="margin-top: 5px">
            <b><input type="text" name="username"
placeholder="Username" class="lg" autocomplete="off" />
            </b>
        </div>
        <div style="margin-top: 5px;">
            <input type="password" name="password"
placeholder="Password" class="lg" />
        </div>
        <div style="margin-top: 5px;">
            <center><input type="submit" name="login"
value="Login" class="btn btn-suscess" >
        </div>
    </form>

```

<?php

```

$username = @$_POST['username'];
$password = @$_POST['password'];
$login = @$_POST['login'];

    if($login) {
        if($username == "" || $password == "") {
            ?> <script type="text/javascript"> alert ("Username /
Password tidak boleh kosong");</script> <?php
        }else{
            $sql = mysqli_query($koneksi, "select * from
tb_user where username = '$username' and password='$password') or
die (mysqli_error());
            $data = mysqli_fetch_array($sql);
            $cek = mysqli_num_rows($sql);
            if($cek >= 1){
                if($data['level'] == "admin"){
                    @$_SESSION['admin'] = $data['kode_user'];
                    header("location: index1.php");

                } else if($data['level'] == "user"){
                    @$_SESSION['user'] = $data['kode_user'];
                    header("location: indexuser.php");
                }

            } else {
                echo "Login gagal";
            }
        }
    }
}
?>

```

gainratio.php

Perhitungan Gain Ratio

<?php

require 'vendor/autoload.php';

use PhpOffice\PhpSpreadsheet\Spreadsheet;

use PhpOffice\PhpSpreadsheet\Writer\Xlsx;

```

if ($_FILES["file_uploaded"]["name"] != '') {
    $allowed_extension = array('xls', 'csv', 'xlsx');
    $file_array = explode(".", $_FILES["file_uploaded"]["name"]);
    $file_extension = end($file_array);
    if (!in_array($file_extension, $allowed_extension)) {
        echo "only xls, csv, xlsx are allowed";
    } else {
        $file_name = time() . '.' . $file_extension;
        move_uploaded_file($_FILES['file_uploaded']['tmp_name'],
$file_name);
    }
}

```



```

        $file_type =
\ PhpOffice\PhpSpreadsheet\IOFactory::identify($file_name);
        $reader =
\ PhpOffice\PhpSpreadsheet\IOFactory::createReader($file_type);
        $spreadsheet = $reader->load($file_name);
        unlink($file_name);
        $data_awal = $spreadsheet->getActiveSheet()->toArray();

        $data = $data_awal;
        //merubah data untuk kolom total
        for ($i = 1; $i < count($data); $i++) {
            if ($data[$i][4] <= 7) {
                $data[$i][4] = "<=7";
            } else {
                $data[$i][4] = ">7";
            }
        }

        // TAHAP 1
        // -1 karena data index 0 adalah judul di tabel
        $total_data = count($data) - 1;

        $total_meningkat = 0;
        $total_menurun = 0;

        // i=1 karena data index 0 adalah judul di tabel
        for ($i = 1; $i < count($data); $i++) {
            if (strtolower($data[$i][5]) == "meningkat") {
                $total_meningkat++;
            } elseif (strtolower($data[$i][5]) == "menurun") {
                $total_menurun++;
            }
        }

        $entropy1 = (-1 * $total_meningkat / $total_data *
log($total_meningkat / $total_data, 2)) +
            (-1 * $total_menurun / $total_data *
log($total_menurun / $total_data, 2));

        for ($i = 1; $i < count($data); $i++) {
            for ($j = 0; $j < count($data[$i]); $j++) {
                // $data_perkategori index 0=jenis sparepart,
                1=bulan, 2=tahun, 3=total, 4=harga, 5=status
                $data_perkategori[$j][i] = $data[$i][$j];
            }
        }

        for ($i = 0; $i < count($data_perkategori); $i++) {
            // $unique dari data_perkategori diambil yang unique,
            index 0=jenis sparepart, 1=bulan, 2=tahun,
            3=total, 4=harga, 5=status
            $unique[$i] = array_unique($data_perkategori[$i]);
        }

        foreach ($unique as $key => $value) {
            $i = 0;
            foreach ($unique[$key] as $key2 => $value2) {
                $unique_tmp[$key][$i] = $unique[$key][$key2];
            }
        }
    }
}

```

```

        $i++;
    }
}
$unique = $unique_tmp;

foreach ($unique as $key1 => $value1) {
    if ($key1 != 5) {
        foreach ($unique[$key1] as $key2 => $value2) {
            $counter_meningkat = 0;
            $counter_menurun = 0;
            for ($i = 0; $i <
count($data_perkategori[$key1]); $i++) {
                if ($data_perkategori[$key1][$i] ==
$value2 && $data_perkategori[5][$i] == "Meningkat") {
                    $counter_meningkat++;
                } else if ($data_perkategori[$key1][$i] ==
$value2 && $data_perkategori[5][$i] == "Menurun") {
                    $counter_menurun++;
                }
            }
            $meningkat[$key1][] = $counter_meningkat;
            $menurun[$key1][] = $counter_menurun;
            $jumlah_menurun_meningkat = $counter_menurun +
$counter_meningkat;
            $jumlah[$key1][] = $jumlah_menurun_meningkat;

            if ($counter_meningkat == 0 ||
$counter_menurun == 0) {
                $entropy2[$key1][] = 0;
            } else {
                $entropy2[$key1][] =
                (-1 * $counter_meningkat /
$jumlah_menurun_meningkat * log($counter_meningkat /
$jumlah_menurun_meningkat, 2)) +
                (-1 * $counter_menurun /
$jumlah_menurun_meningkat * log($counter_menurun /
$jumlah_menurun_meningkat, 2));
            }
        }
    }

    //mencari gain, split, dan gain ratio
    $gain[$key1] = 0;
    $split[$key1] = 0;
    foreach ($jumlah[$key1] as $key2 => $value2) {
        $gain[$key1] += $jumlah[$key1][$key2] /
$total_data * $entropy2[$key1][$key2];
        $split[$key1] += $jumlah[$key1][$key2] /
$total_data * log($jumlah[$key1][$key2] / $total_data, 2);
    }
    $gain[$key1] = $entropy1 - $gain[$key1];
    $split[$key1] = -1 * $split[$key1];
    $gain_ratio[$key1] = $gain[$key1] /
$split[$key1];
}
}

//TAHAP 2

```

```

foreach ($gain_ratio as $key => $value) {
    if (max($gain_ratio) == $value) {
        $index_gain_ratio_terbesar = $key;
    }
}

// //TAHAP 3

$data_tahap3 = $data_awal;
//merubah data untuk kolom dengan gain ratio terbesar
for ($i = 1; $i < count($data_tahap3); $i++) {
    $data_tahap3[$i][$index_gain_ratio_terbesar] =
        round($gain_ratio[$index_gain_ratio_terbesar] *
            $data_awal[$i][$index_gain_ratio_terbesar], 2);
}
}
}

```

```
?>
```

```

=====
Menampilkan Hasil Gain Ratio setiap atribut
=====

```

```

<div class="box-body">
    <div class="table-responsive">
        <div class="table table-bordered table-striped">
            <table id="training" class="table table-bordered
table-striped">
                <thead>
                    <tr>
                        <th style="text-align: ;">No</th>
                        <th style="text-align: ;">Atribut</th>
                        <th style="text-align: ;">Information
Gain</th>
                        <th style="text-align: ;">Split
Info</th>
                        <th style="text-align: ;">Gain
Ratio</th>
                    </tr>
                </thead>
                <tbody>
                    <?php $no = 1; ?>
                    <?php foreach ($data_awal[0] as $key =>
$value) { ?>
                        <?php if ($key != 5) { ?>
                            <tr>
                                <td><? = $no; ?></td>
                                <?php $no++; ?>
                                <td><? = $data_awal[0][$key];
?></td>
                                <td><? = $gain[$key]; ?></td>
                                <td><? = $split[$key]; ?></td>
                                <td><? = $gain_ratio[$key];
?></td>
                            </tr>

```

```

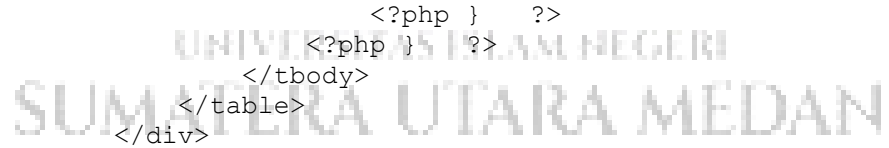
        <?php } ?>
        <?php } ?>
    </tbody>
</table>
</div>
</div>
</div>
=====
Menampilkan Dataset baru
=====

<div class="box-body">
    <div class="col-12 p-3 my-3 " style="overflow:
scroll;min-height: 100px;max-height: 350px; ;">
        <table class="table">
            <thead>
                <tr>
                    <th style="text-align: ;">No</th>
=> $value) { ?>
                    <?php foreach ($data_tahap3[0] as $key
                    <th style="text-align: ;"><?=
                    <?php } ?>
                </tr>
            </thead>
            <tbody>
                <?php $no = 1; ?>
                <?php foreach ($data_tahap3 as $key =>
$value) { ?>
                    <?php if ($key != 0) { ?>
                        <tr>
                            <td><?= $no; ?></td>
                            <?php $no++; ?>
                            <td><?= $value[0]; ?></td>
                            <td><?= $value[1]; ?></td>
                            <td><?= $value[2]; ?></td>
                            <td><?= $value[3]; ?></td>
                            <td><?= $value[4]; ?></td>
                            <td><?= $value[5]; ?></td>
                        </tr>
                    <?php } ?>
                <?php } ?>
            </tbody>
        </table>
    </div>
</div>

    <div class="col-12 mb-3">
        <br>
        Selanjutnya Export data yang sudah di proses di
metode gain ratio, agar bisa di proses prediksi pada metode KNN.
        <br>

        <br>
    </div>
    <form action="views/print.php" method="POST">
        <input type='hidden' name='array_print'
value="<?= htmlentities(serialize($data_tahap3)); ?>" />

```



```

        <button type="submit" class="btn btn-success"
style="width: 10%;">
            Export ke Excel
        </button>

```

knn.php

```

<table class="table table-bordered table-striped">

```

```

        <h5><b>Proses Perhitungan Kuadrat (X1 - X) + (X2 -
X) +....(Xn-X) Pangkat 2</b></h5>

```

```

        <tr>
            <th><center>No</center></th>
            <th><center>Total
Perhitungan</center></th>
            <th><center>Klasifikasi</center></th>

```

```

        </tr>
        <td align="center">
            <?php
                $bulan=0;
                echo sqrt(
                    $data['bulan'],2)
                    + pow($bulan1 -
                    $data['tahun'],2)
                    + pow($jenis_penjualan1 -
                    $data['jenis_penjualan'],2)
                    + pow($total1 -
                    $data['total'],2));

```

```

            </td>

```

```

        <?php
            $color = "";
            if
            ($data['klasifikasi'] == "Menurun"){
                $color = "red";
            }else if
            ($data['klasifikasi'] == "Meningkat"){
                $color = "blue";
            }
        ?>

```

```

        <td align="center"
style="color:<?= $color?> "><?php echo $data['klasifikasi']?></td>

```

```
</tr>
```

```
<?php
```

```
-----  
-----  
datatraining.php  
-----  
-----
```

```
Menampilkan datatraining
```

```
<!-- /.box-header -->
```

```
    <div class="box-body">
```

```
        <div class="table-responsive">
```

```
            <table id="training" class="table table-bordered  
table-striped">
```

```
                <thead>
```

```
                <tr>
```

```
                    <th><center>No</center></th>
```

```
                    <th><center>Nama Produk</center></th>
```

```
                    <th><center>Bulan</center></th>
```

```
                    <th><center>Tahun</center></th>
```

```
                    <th><center>Jenis Produk</center></th>
```

```
                    <th><center>Total</center></th>
```

```
                    <th><center>Klasifikasi</center></th>
```

```
                    <th><center>Aksi</center></th>
```

```
                </tr>
```

```
                </thead>
```

```
                <tbody>
```

```
                    <?php
```

```
                    $sql = $koneksi->query("select * from  
training");
```

```
                    while ($data=$sql->fetch_assoc()) {
```

```
                        ?>
```

```
                        <tr>
```

```
                            <td align="center" ><?php echo
```

```
$data['kode'];?></td>
```

```
                            <td align="center" ><?php echo
```

```
$data['jenis_sparepart'];?></td>
```

```
                            <td align="center" ><?php echo
```

```
$data['bulan'];?></td>
```

```
                            <td align="center" ><?php echo
```

```
$data['tahun'];?></td>
```

```
                            <td align="center" ><?php echo
```

```
$data['jenis_penjualan'];?></td>
```

```
                            <td align="center" ><?php echo
```

```
$data['total'];?></td>
```

```
                            <td align="center" ><?php echo
```

```
$data['klasifikasi'];?></td>
```

```
                            <td width="20%" align="center">
```

```
                                <a id="edit_data" data-toggle="modal"
```

```
data-target="#edit"
```

```
                                data-kode="<?php echo $data['kode']?>"
```

```

                                data-jenis_sparepart="<?php echo
$data['jenis_sparepart'];?>"

                                data-bulan="<?php echo
$data['bulan'];?>"

                                data-tahun="<?php echo
$data['tahun'];?>"

                                data-jenis_penjualan="<?php echo
$data['jenis_penjualan'];?>"

                                data-total="<?php echo
$data['total'];?>"

                                data-klasifikasi="<?php echo
$data['klasifikasi'];?>"

                                class="btn btn-info"><i class="fa
fa-edit"></i></a>

                                <a
href="?page=datatraining&page=hapusdatatraining&kode=<?php echo
$data['kode']?>" class="btn btn-danger" onclick=" return
confirm('Apakah Ingin Menghapus Data??')"><i class="fa fa-
trash"></i></a>

                                </td>
                                </tr>

                                ?>

<table width="100%" border="1" cellspacing="0" cellpadding="4">
<tr>
                                <th><center>No</th>
                                <th>Nama Produk</th>
                                <th>Bulan</th>
                                <th>Tahun</th>
                                <th>Jenis Produk</th>
                                <th>Total</th>
                                <th>Klasifikasi Prediksi</th>
</tr>
<?php
                                $sql = $koneksi->query("select *
from training");
                                while ($data=$sql->fetch_assoc()){
                                ?>
                                <tr>
                                <td align="center" ><?php echo
$data['kode'];?></td>
                                <td align="center" ><?php echo
$data['jenis_sparepart'];?></td>
                                <td align="center" ><?php echo
$data['bulan'];?></td>

```




UNIVERSITAS ISLAM NEGERI
SUMATERA UTARA MEDAN

Lampiran 2

VI	27/12 2022	Revisi Bab IV		27/12 2022	Peran Bab V dan V	ah
VII	29/12 2022	Revisi Bab IV dan Bab V		29/12 2022	Acc sidang	ah
VIII	09/01 2023	Revisi Bab IV dan V				
IX	11/01 2023	ACC Sidang				
X						

Medan, 10 Januari 2023
 An. Dekan
 Ketua Jurusan/Program Studi

ILKA Ruzifa, M.Kom
 NIP.198506042015031006

Catatan: Pada saat bimbingan, kartu ini harus diisi dan ditandatangani oleh pembimbing

Lampiran 3

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