Data Upload

<?php

session\_start();

include("dbconnect.php");

extract($\_REQUEST);

if($rdate=="")

{

$rdate=date("d-m-Y");

}

if(isset($btn))

{

$fname="dataset.csv";//"F".$id.$\_FILES['file']['name'];

move\_uploaded\_file($\_FILES['file']['tmp\_name'],"upload/".$fname);

?>

<script language="javascript">

//alert("Uploaded Successfully");

window.location.href="view\_data1.php";

</script>

<?php

}

?>

Data Preparation

<form name="name" method="post" enctype="multipart/form-data">

<?php

if (($handle = fopen("upload/dataset.csv", "r")) !== FALSE) {

while (($data = fgetcsv($handle, 1000, ",")) !== FALSE) {

$num = count($data);

echo "<p> $num fields in line $row: <br /></p>\n";

$row++;

for ($c=0; $c < $num; $c++) {

echo $data[$c] . "<br />\n";

}

}

fclose($handle);

}\*/

echo "<table border=1 align=center>\n\n";

// Open a file

$file = fopen("upload/dataset.csv", "r");

$nn=0;

// Fetching data from csv file row by row

while (($data = fgetcsv($file)) !== false) {

if($nn<=100)

{

// HTML tag for placing in row format

echo "<tr>";

$col=0;

foreach ($data as $i) {

$col++;

echo "<td>" . htmlspecialchars($i)

. "</td>";

}

echo "</tr> \n";

}

$nn++;

}

// Closing the file

fclose($file);

echo "\n</table>";

?>

<p align="center"><?php echo "Rows:".$nn.", Columns:".$col; ?></p>

<p align="center">

<input type="submit" name="btn" value="Preprocessing">

</p>

</form>

</div>

Preprocessing

$file = fopen("upload/dataset.csv", "r");

$xx=fgetcsv($file)

?>

<table width="594" border="1" align="center">

<tr>

<th>#</th>

<th>Column</th>

<th>Non-Null Count </th>

<th>Dtype</th>

</tr>

<?php

$j=0;

for($i=1;$i<count(fgetcsv($file));$i++)

{

?>

<tr>

<td><?php echo $i; ?></td>

<td><?php echo $xx[$j]; ?></td>

<td><?php

$n=0;

$dd=array();

$row = 1;

$f=0;

$g=0;

if (($handle = fopen("upload/dataset.csv", "r")) !== FALSE) {

while (($data = fgetcsv($handle, 1000, ",")) !== FALSE) {

$num = count($data);

//echo "<p> $num fields in line $row: <br /></p>\n";

$row++;

if($data[$j]!="")

{

$dd[]=$data[$j];

$f+=12;

}

$g++;

for ($c=0; $c < $num; $c++) {

//echo $data[$c] . "<br />\n";

//$dd[]=$data[0];

}

}

fclose($handle);

}

echo count($dd);

$ds=count($dd);

$nd=$row-$ds;

echo " (Null value=".$nd.")";

?></td>

Feature Selection

echo "<table border=1 align=center>\n\n";

// Open a file

$file = fopen("upload/dataset.csv", "r");

// Fetching data from csv file row by row

while (($data = fgetcsv($file)) !== false) {

// HTML tag for placing in row format

echo "<tr>";

if ($data[8]) {

echo "<td>" . htmlspecialchars($data[8])

. "</td>";

}

if ($data[9]) {

echo "<td>" . htmlspecialchars($data[9])

. "</td>";

}

if ($data[10]) {

echo "<td>" . htmlspecialchars($data[10])

. "</td>";

}

echo "</tr> \n";

}

// Closing the file

fclose($file);

echo "\n</table>";

?>

Feature Extraction

<table width="677" height="98" border="1">

<tr>

<td width="167">Temperature</td>

<td width="167"><?php

$file = fopen("upload/dataset.csv", "r");

$i=0;

$dd=array();

while (($data = fgetcsv($file)) !== false) {

$dd[]=$data[8];

if ($i<=15)

{

if($i>1)

echo $data[8].",";

//htmlspecialchars($data[8])

}

$i++;

}

echo "...";

// Closing the file

fclose($file);

?></td>

<td width="321"><?php

sort($dd);

$len=count($dd);

$r=ceil($len/2);

$fir=$dd[1];

$mid=$dd[$r];

$las=$dd[$len-2];

$x1=$mid+1;

$x2=$mid+5;

$f1=$fir." to ".$mid;

$f2=$x1." to ".$las;

echo "F1: ".$f1."<br>F2: ".$f2;

?></td>

</tr>

<tr>

<td>Relative Humidity </td>

<td><?php

$file = fopen("upload/dataset.csv", "r");

$i=0;

$dd=array();

while (($data = fgetcsv($file)) !== false) {

$dd[]=$data[9];

if ($i<=15)

{

if($i>1)

echo $data[9].",";

//htmlspecialchars($data[8])

}

$i++;

}

echo "...";

// Closing the file

fclose($file);

?></td>

<td><?php

sort($dd);

$len=count($dd);

$r=ceil($len/2);

$fir=$dd[1];

$mid=$dd[$r];

$las=$dd[$len-2];

$x1=$mid+1;

$x2=$mid+5;

$f1=$fir." to ".$mid;

$f2=$x1." to ".$las;

echo "F1: ".$f1."<br> F2: ".$f2;

?></td>

</tr>

<tr>

<td>Oxygen</td>

<td><?php

$file = fopen("upload/dataset.csv", "r");

$i=0;

$dd=array();

while (($data = fgetcsv($file)) !== false) {

$dd[]=$data[10];

if ($i<=15)

{

if($i>1)

echo $data[10].",";

//htmlspecialchars($data[8])

}

$i++;

}

echo "...";

// Closing the file

fclose($file);

?></td>

<td><?php

sort($dd);

$len=count($dd);

$r=ceil($len/2);

$fir=$dd[1];

$mid=$dd[$r];

$las=$dd[$len-2];

$x1=$mid+1;

$x2=$mid+5;

$f1=$fir." to ".$mid;

$f2=$x1." to ".$las;

echo "F1: ".$f1."<br> F2: ".$f2;

?></td>

</tr>

</table>

**SVM**

<?php

#use Phpml\Classification\SVC;

#use Phpml\SupportVectorMachine\Kernel;

function SVM()

{

$file = fopen("upload/dataset.csv", "r");

$i=0;

$dd=array();

while (($data = fgetcsv($file)) !== false) {

$dd[]=$data[8];

if ($i<=15)

{

if($i>1)

$d=$data[8].",";

//htmlspecialchars($data[8])

}

$i++;

}

// Closing the file

fclose($file);

}

$samples = array(1,3,1,4,2,4,2,4,3,1,4,1,4,2);

$labels = array('a','a','a','b','b','b');

$classifier = new SVM(

Kernel::LINEAR, // $kernel

1.0, // Temperature

3, // Humidity

0.0, // Oxygen

0.001, // $tolerance

100, // $cacheSize

true, // $shrinking

true // $probabilityEstimates, set to true

);

$classifier->train($samples, $labels);

//Then use predictProbability method instead of predict:

$classifier->predictProbability(3, 2);

// return ['a' => 0.349833, 'b' => 0.650167]

$classifier->predictProbability(3, 2, 1, 5);

// return [

// ['a' => 0.349833, 'b' => 0.650167],

// ['a' => 0.922664, 'b' => 0.0773364],

// ]

?>

**SVM Classification**

<?php

$file = fopen("upload/dataset.csv", "r");

$i=0;

$dd2=array();

while (($data = fgetcsv($file)) !== false) {

$dd2[]=$data[10];

$i++;

}

sort($dd2);

$len=count($dd2);

$r=ceil($len/2);

$fir=$dd2[1];

$mid=$dd2[$r];

$s1=$mid-$fir;

$s2=ceil($r/2);

$s3=$dd2[$s2];

$las=$dd2[$len-2];

$x1=$mid;

$v1=$len-$r;

$v2=ceil($v1/2);

$x2=$r+$v2;

$hh=$dd2[$x2];

$sm3="$mid";

?>

<table width="561" border="1">

<tr>

<td align="center">Danger Mode </td>

<td align="center">Safe Mode </td>

</tr>

<tr>

<td><p>Min: <?php echo $x1; ?>, Hyp: <?php echo $hh; ?>, Max: <?php echo $las; ?> <br>

Count: <?php echo $r; ?> </p>

<p>Values:

<?php

$rr=$x2+8;

for($i=$x2;$i<$rr;$i++)

{

if($dd2[$i]!="")

{

echo $dd2[$i].",";

}

}

?>

**Prediction**

<?php

$file = fopen("upload/dataset.csv", "r");

$i=0;

$dd=array();

while (($data = fgetcsv($file)) !== false) {

$dd[]=$data[8];

if ($i<=15)

{

}

$i++;

}

fclose($file);

$len=count($dd);

$r=ceil($len/2);

$fir=$dd[1];

$mid=$dd[$r];

$las=$dd[$len-2];

$x1=$mid+1;

$x2=$mid+5;

$f1=$fir." to ".$mid;

$f2=$x1." to ".$las;

$mid1=$mid;

$fir1=$fir;

$las1=$las;

$tt1= $fir." - ".$las;

<form name="name" method="post">

<table width="426" height="221" border="1" align="center" cellpadding="5">

<tr>

<td width="191">Temperature (<?php echo $tt1; ?>) </td>

<td width="203"><input type="text" name="d1" value="<?php echo $d1; ?>"></td>

</tr>

<tr>

<td>Relative Humidity (<?php echo $tt2; ?>) </td>

<td><input type="text" name="d2" value="<?php echo $d2; ?>"></td>

</tr>

<tr>

<td>Oxygen (<?php echo $tt3; ?>) </td>

<td><input type="text" name="d3" value="<?php echo $d3; ?>"></td>

</tr>

<tr>

<td>&nbsp;</td>

<td><input type="submit" name="btn" value="Submit"></td>

</tr>

</table>

<p>&nbsp;</p>

<?php

if(isset($btn))

{

$ff=fopen("predict.txt","w");

$read=fread($ff,50);

$data=explode(",",$read);

?>

<p align="center"><strong>Test Result</strong></p>

<p align="center">

<?php

if($d1>=$fir1 && $d1<=$las1 && $d2>=$fir2 && $d2<=$las2 && $d3>=$fir3 && $d3<=$las3)

{

if($d1>=$mid1 && $d2>=$mid2)

{

?><h3 align="center" class="style3">Forest is in Danger Mode</h3>

<?php

}

else if($d2>=$mid2 && $d3>=$mid3)

{

?><h3 align="center" class="style3">Forest is Danger Mode</h3>

<?php

}

else if($d1>=$mid1 && $d3>=$mid3)

{

?><h3 align="center" class="style3">Forest is Danger Mode</h3>

<?php

}

else

{

?><h3 align="center" class="style2">Forest is Safe Mode</h3>

<?php

}

}

else

{

?><h3 align="center" class="style3">Invalid Data!!</h3>

<?php

}

?>

</p>

<?php

}

?>