Lampiran 1 : **JADWAL PENELITIAN**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **KEGIATAN** | **2018** | | | | | | | | | | | | **2019** | | | | | | | | | | | |
| **OKTOBER** | | | | **NOVEMBER** | | | | **DESEMBER** | | | | **JANUARI** | | | | **FEBRUARI** | | | | **MARET** | | | |
| Pra Penelitian |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Proposal |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pemodelan/Abstraksi |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Evaluasi Model |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Desain Sistem |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Konstruksi Sistem |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pengujian Sistem |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pembahasan |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Penyusunan Laporan Penelitian |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Lampiran 2 : **Data Yang Dikumpulkan**

Data Produksi Ikan Nila Kota Gorontalo

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tahun** | **Bulan** | | | | | | | | | | | | **Total (Ton)** |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** |
| **2013** | **189.199** | **294.972** | **204.954** | **196.681** | **248.521** | **197.435** | **272.014** | **352.424** | **317.955** | **298.306** | **288.953** | **358.586** | **3220** |
| **2014** | **253.924** | **262.869** | **364.675** | **254.496** | **367.756** | **263.265** | **393.854** | **274.997** | **297.675** | **385.596** | **396.498** | **422.375** | **3937.98** |
| **2015** | **422.423** | **357.145** | **289.628** | **325.992** | **379.934** | **354.875** | **274.054** | **355.821** | **404.967** | **376.625** | **369.663** | **391.003** | **4302.13** |
| **2016** | **385.393** | **402.248** | **381.469** | **333.635** | **312.754** | **374.835** | **294.054** | **336.332** | **382.242** | **357.524** | **360.423** | **424.191** | **4345.1** |
| **2017** | **412.261** | **360.319** | **394.408** | **285.325** | **316.927** | **361.628** | **378.524** | **393.738** | **385.852** | **360.504** | **417.756** | **424.438** | **4491.68** |

Lampiran 3 : **LISTHING PROGRAM**

**Function Linier Regresi**

<?php

error\_reporting(0);

include\_once "library/inc.connection.php";

include\_once "library/inc.library.php";

date\_default\_timezone\_set("Asia/Jakarta");

$periodeprediksi = $\_POST ['periode'];

$get3 = "delete from dataset where bulan='prediksi'";

$del3 = mysql\_query($get3);

$sql9 = mysql\_query("TRUNCATE TABLE prediksi");

for ($periode=1; $periode<=$periodeprediksi;$periode++)

{

$sql9 = mysql\_query("TRUNCATE TABLE normalisasi");

$sql9 = mysql\_query("TRUNCATE TABLE normalisasi2");

$sql9 = mysql\_query("TRUNCATE TABLE regresi");

?>

<?php

//1. Mengubah data univariat ke Multivariat per Kab

$sqla= mysql\_query("SELECT \* from dataset order by id\_dataset asc");

while ($dta = mysql\_fetch\_array($sqla))

{

$hsl\_produksi[]=$dta['hsl\_produksi'];

}

$b=(count($hsl\_produksi));

$i=0; $j=1;

$sql12a= mysql\_query("SELECT \* from dataset order by id\_dataset asc");

while ($dt12 = mysql\_fetch\_array($sql12a))

{

$query = "INSERT INTO normalisasi(x,y) VALUES ('$hsl\_produksi[$i]','$hsl\_produksi[$j]')";

$hasil = mysql\_query($query);

$xy=($hsl\_produksi[$i]\*$hsl\_produksi[$j]);

$xq=(pow($hsl\_produksi[$i],2));

$idset=$dt12[id\_dataset];

$query2 = "INSERT INTO regresi (xy,xq) VALUES ('$xy','$xq')";

$hasil2 = mysql\_query($query2);

$i=$i+1; $j=$j+1;

}

//menghapus data terakhir

$sql2= mysql\_query("SELECT \* from normalisasi order by id desc limit 1");

while ($dt2 = mysql\_fetch\_array($sql2))

{

$id=$dt2['id'];

$x=$dt2['x'];

$query2 = "INSERT INTO normalisasi2 (x) VALUES ('$x')";

$hasil2 = mysql\_query($query2);

$get = "delete from normalisasi where id='$id'";

$del = mysql\_query($get);

$get2 = "delete from regresi where id='$id'";

$del2 = mysql\_query($get2);

}

// sigma x====================================================

$sqlx= mysql\_query("SELECT sum(x) as sigmax from normalisasi");

$dtx= mysql\_fetch\_array($sqlx);

$sigmax=$dtx[sigmax];

//echo "Sigma x= $sigmax<br>";

//sigma y=====================================================

$sqly= mysql\_query("SELECT sum(y) as sigmay from normalisasi");

$dty = mysql\_fetch\_array($sqly);

$sigmay=$dty[sigmay];

//echo "Sigma y= $sigmay<br>";

//sigma xy====================================================

$sqlxy= mysql\_query("SELECT sum(xy) as sigmaxy from regresi");

$dtxy = mysql\_fetch\_array($sqlxy);

$sigmaxy=$dtxy[sigmaxy];

//echo "Sigma xy= $sigmaxy<br>";

//sigma x^2===================================================

$sqlxq= mysql\_query("SELECT sum(xq) as sigmaxq from regresi");

$dtxq = mysql\_fetch\_array($sqlxq);

$sigmaxq=$dtxq[sigmaxq];

//echo "Sigma xkuadrat= $sigmaxq<br>";

//n=========================================================

$sqln= mysql\_query("SELECT count(id) as n from normalisasi");

$dtn = mysql\_fetch\_array($sqln);

$n=$dtn[n];

//echo "n = $n<br>";

/////////////////////////////////////////////////////////////////////////////////////Perhitungan Konstanta a dan b

//konstantaa===================================================

$konsa=(($sigmay\*$sigmaxq)-($sigmax\*$sigmaxy))/($n\*($sigmaxq)-(pow($sigmax,2)));

//echo "$konsa=(($sigmay\*$sigmaxq)-($sigmax\*$sigmaxy))/($n\*($sigmaxq)-(pow($sigmax,2)))<br>";

//konstantab===================================================

$konsb=(($n\*($sigmaxy))-($sigmax\*$sigmay))/($n\*($sigmaxq)-(pow($sigmax,2)));

//echo "$konsb=(($n\*($sigmaxy))-($sigmax\*$sigmay))/($n\*($sigmaxq)-(pow($sigmax,2)))<br>";

////////////////////////////////////////////////////////////////////////////////////////////////////////////

//prediksi=====================================================

$sqln2= mysql\_query("SELECT \* from normalisasi2");

while ($dtn2 = mysql\_fetch\_array($sqln2))

{

$x=$dtn2['x'];

$pred=$konsa+($konsb\*$x);

$query2 = "INSERT INTO prediksi (hsl\_produksi) VALUES ('$pred')";

$hasil2 = mysql\_query($query2);

$t=$t+1;

$idset=$idset+1;

$query4 = " INSERT INTO dataset (id\_dataset,bulan,hsl\_produksi) VALUES ('$idset','prediksi','$pred')";

$hasil4 = mysql\_query($query4);

}

}

$get3 = "delete from dataset where bulan='prediksi'";

$del3 = mysql\_query($get3);

mysql\_close();

header('Location:prediksi.php');

?>

Lampiran 4 :

**DAFTAR RIWAYAT HIDUP**



**Lisnawati Maku,** lahir di Gorontalo pada tanggal 03 November 1993, anak bungsu dari pasangan Bapak Alimun Maku dan Ibu Yeti Potiuwa. Alamat Desa Labanu, Kec. Tibawa, Kab. Gorontalo.

**Riwayat Pendidikan :**

1. Tahun 2006, Menyelesaikan Pendidikan di SDN INPRES LABANU.
2. Tahun 2009, Menyelesaikan Pendidikan di SMP N 3 SATAP TIBAWA.
3. Tahun 2013, Menyelesaikan Pendidikan di SMA Negeri 2 KWANDANG.
4. Tahun 2013, Mendaftar dan Diterima Menjadi Mahasiswa di Universitas Negeri Gorontalo
5. Tahun 2016, Mendaftar Pindah dan Diterima Menjadi Mahasiswa di Universitas Ichsan Gorontalo.