**LAPORAN**

**STATISTIKA**

***“Analisis Pengaruh Indeks Pembangunan Manusia terhadap Angka Harapan Hidup di Wilayah Indonesia Timur.”***

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**LA ODE MUHAMMAD YUDHY PRAYITNO**

**E1E122064**

**JURUSAN TEKNIK INFORMATIKA**

**FAKULTAS TEKNIK**

**UNIVERSITAS HALU OLEO**

**KENDARI**

**2023**

1. Triple A Construction Company, sebuah perusahaan yang bergerak dalam renovasi rumah-rumah tua di Albany, telah mengamati bahwa volume pekerjaan renovasi mereka berkorelasi dengan tingkat gaji di wilayah tersebut. Dalam enam tahun terakhir, mereka telah mencatat pendapatan mereka sendiri sebanding dengan jumlah uang yang diterima oleh pekerja di Albany.

Para ekonom memperkirakan bahwa gaji di wilayah tersebut akan meningkat menjadi $600 juta dalam setahun ke depan. Berdasarkan pola yang telah diamati, Triple A Construction Company berencana untuk menyesuaikan operasional mereka sesuai dengan proyeksi gaji ini. Mereka berharap untuk memanfaatkan informasi ini untuk merencanakan dan mengoptimalkan proses renovasi mereka.

Diketahui bahwa:

* Hasil penjualan Triple A Construction Company berkorelasi dengan pendapatan masyarakat Albany.
* Diperkirakan pendapatan masyarakat Albany akan mencapai $800 juta di tahun depan.
* Ada hubungan positif antara pendapatan masyarakat dan hasil penjualan, yaitu peningkatan pendapatan masyarakat cenderung diikuti oleh peningkatan hasil penjualan, meskipun hubungan ini tidak sempurna.

|  |  |
| --- | --- |
| TRIPLE A’S SALES ($100,000) | LOCAL PAYROLL ($100,000,000) |
| 6 | 3 |
| 8 | 4 |
| 9 | 6 |
| 5 | 4 |
| 4,5 | 2 |
| 9,5 | 5 |

Ditanyakan: a. Bagaimana prediksi menggunakan analisis regresi linier sederhana?

b. Seberapa akurat prediksi yang dihasilkan dari analisis regresi? Penyelesaian:

1. **Analisis Prediksi Regresi**

|  |  |  |  |
| --- | --- | --- | --- |
| X | Y | (𝑋 − 𝑋̅)2 | (𝑋 − 𝑋̅)(𝑋 − 𝑌̅) |
| 3 | 6 | 1 | 1 |
| 4 | 8 | 0 | 0 |
| 6 | 9 | 4 | 4 |
| 4 | 5 | 0 | 0 |
| 2 | 4.5 | 4 | 5 |
| 5 | 9.5 | 1 | 2.5 |
| ∑X = 24  𝑋̅ = 4 | ∑Y = 42  𝑌̅ = 7 | ∑(𝑋 − 𝑋̅)2 = 10 | ∑(𝑋 − 𝑋̅)(𝑋 − 𝑌̅) = 12.5 |

Rumus: Ŷ = b0 + b1 (X)

Maka diperoleh rumus prediksi Y:

Ŷ = 2 + 1,25X

Jika kita mempertimbangkan bahwa pendapatan masyarakat setempat di tahun depan akan mencapai $800 juta, maka kita dapat memprediksi hasil penjualan Triple A Construction Company dengan menggunakan rumus diatas . Dengan mengaplikasikan rumus tersebut, kita mendapatkan:

Ŷ = 2 + 1,25(8)

Ŷ = 2 + 10

Ŷ = 12

Dengan demikian, berdasarkan perhitungan ini, kita dapat memperkirakan bahwa hasil penjualan Triple A Construction di tahun depan akan mencapai $1,2 M. Prediksi ini dibuat dengan asumsi bahwa pendapatan masyarakat setempat akan mencapai $800 juta. Ini menunjukkan bagaimana perusahaan dapat merencanakan strategi bisnisnya berdasarkan tren ekonomi setempat.

1. **Keakuratan Prediksi Analisis Regresi**

Dalam mencari tahu keakuratan prediksi Analisis Regresi Linier Sederhana, terdapat tiga rumus yang perlu diketahui. :

1. Sum of the Squares Total (SST)

SST = ∑(𝑌 − Ȳ)2

1. Sum of the Squares Error (SSE)

SSE = ∑(𝑌 − Ŷ)2

1. Sum of the Squares due to Regression (SSR)

SSR = 2

Tabel 1.3 Sebagai Tabel Bantu:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **X** | **Y** | **(Y-Ȳ)²** | **Ŷ** | **(𝑌 − Ŷ)²** | **(Ŷ-Ȳ)²** |
| 3 | 6 | 1 | 5,75 | 0,0625 | 1.563 |
| 4 | 8 | 1 | 7 | 1 | 0 |
| 6 | 9 | 4 | 9,5 | 0,25 | 6,25 |
| 4 | 5 | 4 | 7 | 4 | 0 |
| 2 | 4,5 | 6,25 | 4,5 | 0 | 6,25 |
| 5 | 9,5 | 6,25 | 8,25 | 15.625 | 1.563 |
|  | Ȳ = 7 | ∑(Y-Ȳ)² = 22,5 |  | ∑(𝑌 − Ŷ)²= 6,875 | ∑(Ŷ-Ȳ)² = 15,625 |
|  |  | SST = 22,5 | | SSE = 6,875 | SSR = 15,625 |

Coefficient of Determination (r2) berguna untuk mencari nilai akhir atau yang dimaksud sebagai langkah terakhir dalam mengetahui keakuratan dari hasil Analisis Regresi Linier Sederhana.

Jadi, keakuratan Analisis Regresi Linier Sederhana pada studi kasus prediksi pendapatan hasil penjualan dari Triple A Construction Company di tahun depan dengan meninjau pendapatan masyarakat Albani sebesar $800 juta adalah 69,44 %.

Scatter Diagram:

Dokumentasi Pengerjaan Analisis Regresi Linier Sederhana dengan studi kasus prediksi pendapatan dari hasil penjualan Triple A Construction Company menggunakan Microsoft Excel:

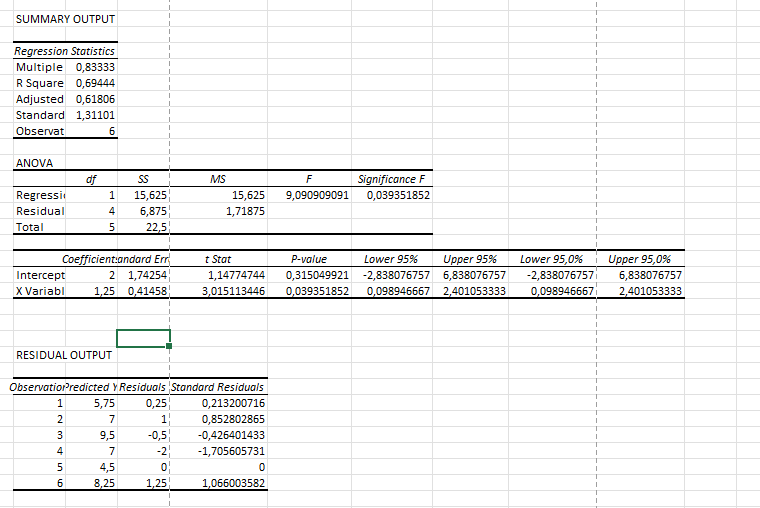


Diagram Residual Plots

Diagram Predict

1. Di Indonesia, Indeks Pembangunan Manusia (IPM) merupakan indeks yang digunakan untuk mengukur kualitas hidup penduduk suatu wilayah. IPM terdiri dari tiga komponen, yaitu kesehatan, pendidikan, dan standar hidup. Angka Harapan Hidup (AHH) merupakan salah satu komponen IPM yang menunjukkan rata-rata usia yang dapat diharapkan dicapai oleh penduduk suatu wilayah.

Di Indonesia, wilayah Indonesia Timur memiliki IPM yang lebih rendah dibandingkan dengan wilayah Indonesia Barat. Hal ini menunjukkan bahwa kualitas hidup penduduk wilayah Indonesia Timur masih belum optimal. Salah satu faktor yang dapat mempengaruhi IPM adalah AHH.

Oleh karena itu, perlu dilakukan analisis untuk mengetahui pengaruh IPM terhadap AHH di wilayah Indonesia Timur. Analisis ini diharapkan dapat memberikan informasi yang dapat digunakan untuk meningkatkan kualitas hidup penduduk wilayah Indonesia Timur.

Ditanyakan:

a. Tentukan regresi linear sederhana dan interprestasikan?

b. Seberapa akurat prediksi yang dihasilkan dari analisis regresi? Penyelesaian

Berikut adalah informasi yang diketahui:

* IPM di Kendari pada tahun 2022 adalah 84.78.

Dengan informasi ini, diharapkan dapat memberikan gambaran yang lebih jelas tentang pengaruh IPM terhadap AHH di wilayah Indonesia Timur.

Tabel 2.1 Sumber data IPM dan AHH 2022

|  |  |  |
| --- | --- | --- |
| Provinsi/Kabupaten/Kota | 2022 | |
| IPM(X) | AHH(Y) |
| BALI | 77.19 | 72.61 |
| Jembrana | 74.05 | 72.735 |
| Tabanan | 76.84 | 74.005 |
| Badung | 82.625 | 75.365 |
| Gianyar | 78.775 | 74.035 |
| Klungkung | 73.955 | 71.755 |
| Bangli | 71.43 | 70.905 |
| Karangasem | 69.065 | 70.81 |
| Buleleng | 74.58 | 72.235 |
| Kota Denpasar | 84.655 | 75.22 |
| NUSA TENGGARA BARAT | 70.24 | 67.105 |
| Lombok Barat | 70.65 | 67.71 |
| Lombok Tengah | 68.26 | 66.76 |
| Lombok Timur | 68.215 | 66.555 |
| Sumbawa | 69.82 | 68.14 |
| Dompu | 70.59 | 67.39 |
| Bima | 68.315 | 66.91 |
| Sumbawa Barat | 73.805 | 68.79 |
| Lombok Utara | 65.745 | 67.78 |
| Kota Mataram | 80.38 | 72.22 |
| Kota Bima | 77.275 | 70.86 |
| NUSA TENGGARA TIMUR | 67.44 | 67.485 |
| Sumba Barat | 65.31 | 67.285 |
| Sumba Timur | 67.235 | 65.375 |
| Kupang | 65.225 | 65.205 |
| Timor Tengah Selatan | 64.29 | 66.67 |
| Timor Tengah Utara | 64.91 | 67.265 |
| Belu | 63.795 | 65.24 |
| Alor | 63.48 | 61.93 |
| Lembata | 66.92 | 67.435 |
| Flores Timur | 66.18 | 65.6 |
| Sikka | 66.745 | 67.81 |
| Ende | 68.455 | 65.73 |
| Ngada | 69.35 | 68.29 |
| Manggarai | 66.26 | 67.29 |
| Rote Ndao | 63.24 | 65.21 |
| Manggarai Barat | 66.01 | 67.63 |
| Sumba Tengah | 63.42 | 68.575 |
| Sumba Barat Daya | 63.33 | 68.75 |
| Nagekeo | 66.54 | 67.47 |
| Manggarai Timur | 63.46 | 68.255 |
| Sabu Raijua | 58.935 | 60.84 |
| Malaka | 62.07 | 65.27 |
| Kota Kupang | 81.27 | 70.04 |
| SULAWESI UTARA | 75.08 | 72.1 |
| Bolaang Mongondow | 68.3 | 69.7 |
| Minahasa | 76.94 | 71.395 |
| Kepulauan Sangihe | 71.91 | 70.41 |
| Kepulauan Talaud | 70.69 | 70.48 |
| Minahasa Selatan | 72.32 | 70.245 |
| Minahasa Utara | 75.435 | 71.62 |
| Bolaang Mongondow Utara | 67.99 | 67.985 |
| Siau Tagulandang Biaro | 68.995 | 71.195 |
| Minahasa Tenggara | 72.03 | 70.41 |
| Bolaang Mongondow Selatan | 63.905 | 64.785 |
| Bolaang Mongondow Timur | 67.735 | 68.12 |
| Kota Manado | 80.265 | 72.105 |
| Kota Bitung | 75.21 | 71.3 |
| Kota Tomohon | 77.57 | 72.34 |
| Kota Kotamobagu | 75.09 | 70.885 |
| SULAWESI TENGAH | 71.1 | 68.965 |
| Banggai Kepulauan | 67.855 | 66.68 |
| Banggai | 71.765 | 70.83 |
| Morowali | 71.77 | 69.125 |
| Poso | 72.3 | 71.155 |
| Donggala | 66.335 | 67.56 |
| Toli-Toli | 67.165 | 66.335 |
| Buol | 69.205 | 69.225 |
| Parigi Moutong | 66.3 | 64.215 |
| Tojo Una-Una | 66.805 | 66.035 |
| Sigi | 70.09 | 70.055 |
| Banggai Laut | 67.67 | 65.8 |
| Morowali Utara | 69.975 | 69.655 |
| Kota Palu | 82.05 | 71.11 |
| SULAWESI SELATAN | 74.09 | 70.995 |
| Kepulauan Selayar | 70.385 | 68.675 |
| Bulukumba | 71.395 | 68.385 |
| Bantaeng | 68.97 | 70.77 |
| Jeneponto | 66.51 | 66.74 |
| Takalar | 68.12 | 67.535 |
| Gowa | 70.915 | 70.6 |
| Sinjai | 68.7 | 67.605 |
| Maros | 71.73 | 69.23 |
| Pangkajene dan Kepulauan | 71.03 | 67.035 |
| Barru | 72.69 | 69.285 |
| Bone | 68.095 | 67.43 |
| Soppeng | 70.155 | 70.13 |
| Wajo | 71.175 | 67.72 |
| Sidenreng Rappang | 73.12 | 70.31 |
| Pinrang | 72.665 | 70.01 |
| Enrekang | 73.495 | 71.085 |
| Luwu | 72.065 | 70.665 |
| Tana Toraja | 70.085 | 73.655 |
| Luwu Utara | 70.33 | 68.945 |
| Luwu Timur | 74.31 | 70.88 |
| Toraja Utara | 69.825 | 73.555 |
| Kota Makasar | 83.02 | 72.335 |
| Kota Parepare | 79.03 | 71.495 |
| Kota Palopo | 79.28 | 71.105 |
| SULAWESI TENGGARA | 73.045 | 71.455 |
| Buton | 67.475 | 68.47 |
| Muna | 70.425 | 70.435 |
| Konawe | 73.465 | 70.355 |
| Kolaka | 74.02 | 71.38 |
| Konawe Selatan | 69.35 | 70.965 |
| Bombana | 66.275 | 69.22 |
| Wakatobi | 71.32 | 70.59 |
| Kolaka Utara | 70.585 | 70.44 |
| Buton Utara | 70.185 | 70.965 |
| Konawe Utara | 70.505 | 69.53 |
| Kolaka Timur | 68.725 | 72.955 |
| Konawe Kepulauan | 66.79 | 68.46 |
| Muna Barat | 66.7 | 70.365 |
| Buton Tengah | 64.575 | 67.72 |
| Buton Selatan | 62.59 | 67.69 |
| Kota Kendari | 84.78 | 73.955 |
| Kota Baubau | 77.34 | 71.365 |
| GORONTALO | 67.995 | 68.545 |
| Boalemo | 63.97 | 69.615 |
| Gorontalo | 65.18 | 67.755 |
| Pohuwato | 65.69 | 64.6 |
| Bone Bolango | 69.035 | 68.695 |
| Gorontalo Utara | 63.015 | 66.235 |
| Kota Gorontalo | 76.44 | 72.84 |
| SULAWESI BARAT | 67.28 | 65.67 |
| Majene | 68.295 | 62.08 |
| Polewali Mandar | 65.54 | 62.805 |
| Mamasa | 67.725 | 71.185 |
| Mamuju | 68.31 | 68.15 |
| Mamuju Utara / Pasangkayu | 67.7 | 66.825 |
| Mamuju Tengah | 66.625 | 68.91 |
| MALUKU | 71.155 | 66.48 |
| Maluku Tenggara Barat / Kepulauan Tanimbar | 62.26 | 63.66 |
| Maluku Tenggara | 67.42 | 65.38 |
| Maluku Tengah | 72.25 | 66.635 |
| Buru | 71.06 | 66.625 |
| Kepulauan Aru | 64.535 | 63.195 |
| Seram Bagian Barat | 66.36 | 62.12 |
| Seram Bagian Timur | 64.755 | 59.93 |
| Maluku Barat Daya | 63.655 | 62.91 |
| Buru Selatan | 66.655 | 66.64 |
| Kota Ambon | 82.13 | 70.94 |
| Kota Tual | 68.91 | 66.095 |
| MALUKU UTARA | 70.745 | 68.815 |
| Halmahera Barat | 66.84 | 66.585 |
| Halmahera Tengah | 66.99 | 64.49 |
| Kepulauan Sula | 65.945 | 63.615 |
| Halmahera Selatan | 65.63 | 66.155 |
| Halmahera Utara | 69.8 | 69.83 |
| Halmahera Timur | 66.865 | 69.475 |
| Pulau Morotai | 59.465 | 67.655 |
| Pulau Taliabu | 62.045 | 62.465 |
| Kota Ternate | 80.875 | 71.315 |
| Kota Tidore Kepulauan | 72.555 | 69.695 |
| PAPUA BARAT | 67.265 | 66.49 |
| Fakfak | 69.425 | 68.73 |
| Kaimana | 65.975 | 65.255 |
| Teluk Wondama | 61.085 | 60.56 |
| Teluk Bintuni | 65.64 | 61.38 |
| Manokwari | 73.535 | 69.18 |
| Sorong Selatan | 63.225 | 66.69 |
| Sorong | 66.755 | 66.56 |
| Raja Ampat | 62.995 | 65.105 |
| Tambrauw | 53.875 | 60.66 |
| Maybrat | 60.98 | 65.5 |
| Manokwari Selatan | 58.01 | 67.8 |
| Pegunungan Arfak | 58 | 67.475 |
| Kota Sorong | 79.625 | 71.395 |
| PAPUA | 60.24 | 66.25 |
| Merauke | 72.03 | 67.4 |
| Jayawijaya | 58.615 | 60.24 |
| Jayapura | 73.415 | 67.22 |
| Nabire | 71.65 | 68.23 |
| Kepulauan Yapen | 69.45 | 69.24 |
| Biak Numfor | 73.655 | 68.38 |
| Paniai | 52.805 | 66.68 |
| Puncak Jaya | 47.355 | 65.675 |
| Mimika | 71.355 | 72.6 |
| Boven Digoel | 60.985 | 60.765 |
| Mappi | 60.14 | 65.655 |
| Asmat | 45.545 | 58.905 |
| Yahukimo | 52.165 | 66.305 |
| Pegunungan Bintang | 49.035 | 64.605 |
| Tolikara | 47.1 | 66.06 |
| Sarmi | 64.795 | 66.74 |
| Keerom | 67.74 | 66.945 |
| Waropen | 61.18 | 66.67 |
| Supiori | 61.795 | 66.36 |
| Mamberamo Raya | 53.18 | 58.32 |
| Nduga | 35.585 | 55.61 |
| Lanny Jaya | 50.85 | 66.23 |
| Mamberamo Tengah | 49.97 | 64.045 |
| Yalimo | 53.455 | 65.62 |
| Puncak | 42.775 | 66.29 |
| Dogiyai | 54.74 | 66.13 |
| Intan Jaya | 48.55 | 65.875 |
| Deiyai | 48.405 | 65.665 |
| Kota Jayapura | 81.245 | 70.77 |

Ditanyakan:

1. Tentukan regresi linear dan interpretasikan?
2. Seberapa akurat prediksi yang dihasilkan dari analisis regresi?

Penyelesaian:

# a. Prediksi Analisis Regresi

Tabel 2.2 Sebagai Tabel Bantu:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Provinsi/Kabupaten/Kota | 2022 | | XY | X² | Y² |
| IPM(X) | AHH(Y) |
| BALI | 77.19 | 72.61 | 5604.77 | 5958.3 | 5272.21 |
| Jembrana | 74.05 | 72.735 | 5386.03 | 5483.4 | 5290.38 |
| Tabanan | 76.84 | 74.005 | 5686.54 | 5904.39 | 5476.74 |
| Badung | 82.625 | 75.365 | 6227.03 | 6826.89 | 5679.88 |
| Gianyar | 78.775 | 74.035 | 5832.11 | 6205.5 | 5481.18 |
| Klungkung | 73.955 | 71.755 | 5306.64 | 5469.34 | 5148.78 |
| Bangli | 71.43 | 70.905 | 5064.74 | 5102.24 | 5027.52 |
| Karangasem | 69.065 | 70.81 | 4890.49 | 4769.97 | 5014.06 |
| Buleleng | 74.58 | 72.235 | 5387.29 | 5562.18 | 5217.9 |
| Kota Denpasar | 84.655 | 75.22 | 6367.75 | 7166.47 | 5658.05 |
| NUSA TENGGARA BARAT | 70.24 | 67.105 | 4713.46 | 4933.66 | 4503.08 |
| Lombok Barat | 70.65 | 67.71 | 4783.71 | 4991.42 | 4584.64 |
| Lombok Tengah | 68.26 | 66.76 | 4557.04 | 4659.43 | 4456.9 |
| Lombok Timur | 68.215 | 66.555 | 4540.05 | 4653.29 | 4429.57 |
| Sumbawa | 69.82 | 68.14 | 4757.53 | 4874.83 | 4643.06 |
| Dompu | 70.59 | 67.39 | 4757.06 | 4982.95 | 4541.41 |
| Bima | 68.315 | 66.91 | 4570.96 | 4666.94 | 4476.95 |
| Sumbawa Barat | 73.805 | 68.79 | 5077.05 | 5447.18 | 4732.06 |
| Lombok Utara | 65.745 | 67.78 | 4456.2 | 4322.41 | 4594.13 |
| Kota Mataram | 80.38 | 72.22 | 5805.04 | 6460.94 | 5215.73 |
| Kota Bima | 77.275 | 70.86 | 5475.71 | 5971.43 | 5021.14 |
| NUSA TENGGARA TIMUR | 67.44 | 67.485 | 4551.19 | 4548.15 | 4554.23 |
| Sumba Barat | 65.31 | 67.285 | 4394.38 | 4265.4 | 4527.27 |
| Sumba Timur | 67.235 | 65.375 | 4395.49 | 4520.55 | 4273.89 |
| Kupang | 65.225 | 65.205 | 4253 | 4254.3 | 4251.69 |
| Timor Tengah Selatan | 64.29 | 66.67 | 4286.21 | 4133.2 | 4444.89 |
| Timor Tengah Utara | 64.91 | 67.265 | 4366.17 | 4213.31 | 4524.58 |
| Belu | 63.795 | 65.24 | 4161.99 | 4069.8 | 4256.26 |
| Alor | 63.48 | 61.93 | 3931.32 | 4029.71 | 3835.32 |
| Lembata | 66.92 | 67.435 | 4512.75 | 4478.29 | 4547.48 |
| Flores Timur | 66.18 | 65.6 | 4341.41 | 4379.79 | 4303.36 |
| Sikka | 66.745 | 67.81 | 4525.98 | 4454.9 | 4598.2 |
| Ende | 68.455 | 65.73 | 4499.55 | 4686.09 | 4320.43 |
| Ngada | 69.35 | 68.29 | 4735.91 | 4809.42 | 4663.52 |
| Manggarai | 66.26 | 67.29 | 4458.64 | 4390.39 | 4527.94 |
| Rote Ndao | 63.24 | 65.21 | 4123.88 | 3999.3 | 4252.34 |
| Manggarai Barat | 66.01 | 67.63 | 4464.26 | 4357.32 | 4573.82 |
| Sumba Tengah | 63.42 | 68.575 | 4349.03 | 4022.1 | 4702.53 |
| Sumba Barat Daya | 63.33 | 68.75 | 4353.94 | 4010.69 | 4726.56 |
| Nagekeo | 66.54 | 67.47 | 4489.45 | 4427.57 | 4552.2 |
| Manggarai Timur | 63.46 | 68.255 | 4331.46 | 4027.17 | 4658.75 |
| Sabu Raijua | 58.935 | 60.84 | 3585.61 | 3473.33 | 3701.51 |
| Malaka | 62.07 | 65.27 | 4051.31 | 3852.68 | 4260.17 |
| Kota Kupang | 81.27 | 70.04 | 5692.15 | 6604.81 | 4905.6 |
| SULAWESI UTARA | 75.08 | 72.1 | 5413.27 | 5637.01 | 5198.41 |
| Bolaang Mongondow | 68.3 | 69.7 | 4760.51 | 4664.89 | 4858.09 |
| Minahasa | 76.94 | 71.395 | 5493.13 | 5919.76 | 5097.25 |
| Kepulauan Sangihe | 71.91 | 70.41 | 5063.18 | 5171.05 | 4957.57 |
| Kepulauan Talaud | 70.69 | 70.48 | 4982.23 | 4997.08 | 4967.43 |
| Minahasa Selatan | 72.32 | 70.245 | 5080.12 | 5230.18 | 4934.36 |
| Minahasa Utara | 75.435 | 71.62 | 5402.65 | 5690.44 | 5129.42 |
| Bolaang Mongondow Utara | 67.99 | 67.985 | 4622.3 | 4622.64 | 4621.96 |
| Siau Tagulandang Biaro | 68.995 | 71.195 | 4912.1 | 4760.31 | 5068.73 |
| Minahasa Tenggara | 72.03 | 70.41 | 5071.63 | 5188.32 | 4957.57 |
| Bolaang Mongondow Selatan | 63.905 | 64.785 | 4140.09 | 4083.85 | 4197.1 |
| Bolaang Mongondow Timur | 67.735 | 68.12 | 4614.11 | 4588.03 | 4640.33 |
| Kota Manado | 80.265 | 72.105 | 5787.51 | 6442.47 | 5199.13 |
| Kota Bitung | 75.21 | 71.3 | 5362.47 | 5656.54 | 5083.69 |
| Kota Tomohon | 77.57 | 72.34 | 5611.41 | 6017.1 | 5233.08 |
| Kota Kotamobagu | 75.09 | 70.885 | 5322.75 | 5638.51 | 5024.68 |
| SULAWESI TENGAH | 71.1 | 68.965 | 4903.41 | 5055.21 | 4756.17 |
| Banggai Kepulauan | 67.855 | 66.68 | 4524.57 | 4604.3 | 4446.22 |
| Banggai | 71.765 | 70.83 | 5083.11 | 5150.22 | 5016.89 |
| Morowali | 71.77 | 69.125 | 4961.1 | 5150.93 | 4778.27 |
| Poso | 72.3 | 71.155 | 5144.51 | 5227.29 | 5063.03 |
| Donggala | 66.335 | 67.56 | 4481.59 | 4400.33 | 4564.35 |
| Toli-Toli | 67.165 | 66.335 | 4455.39 | 4511.14 | 4400.33 |
| Buol | 69.205 | 69.225 | 4790.72 | 4789.33 | 4792.1 |
| Parigi Moutong | 66.3 | 64.215 | 4257.45 | 4395.69 | 4123.57 |
| Tojo Una-Una | 66.805 | 66.035 | 4411.47 | 4462.91 | 4360.62 |
| Sigi | 70.09 | 70.055 | 4910.15 | 4912.61 | 4907.7 |
| Banggai Laut | 67.67 | 65.8 | 4452.69 | 4579.23 | 4329.64 |
| Morowali Utara | 69.975 | 69.655 | 4874.11 | 4896.5 | 4851.82 |
| Kota Palu | 82.05 | 71.11 | 5834.58 | 6732.2 | 5056.63 |
| SULAWESI SELATAN | 74.09 | 70.995 | 5260.02 | 5489.33 | 5040.29 |
| Kepulauan Selayar | 70.385 | 68.675 | 4833.69 | 4954.05 | 4716.26 |
| Bulukumba | 71.395 | 68.385 | 4882.35 | 5097.25 | 4676.51 |
| Bantaeng | 68.97 | 70.77 | 4881.01 | 4756.86 | 5008.39 |
| Jeneponto | 66.51 | 66.74 | 4438.88 | 4423.58 | 4454.23 |
| Takalar | 68.12 | 67.535 | 4600.48 | 4640.33 | 4560.98 |
| Gowa | 70.915 | 70.6 | 5006.6 | 5028.94 | 4984.36 |
| Sinjai | 68.7 | 67.605 | 4644.46 | 4719.69 | 4570.44 |
| Maros | 71.73 | 69.23 | 4965.87 | 5145.19 | 4792.79 |
| Pangkajene dan Kepulauan | 71.03 | 67.035 | 4761.5 | 5045.26 | 4493.69 |
| Barru | 72.69 | 69.285 | 5036.33 | 5283.84 | 4800.41 |
| Bone | 68.095 | 67.43 | 4591.65 | 4636.93 | 4546.8 |
| Soppeng | 70.155 | 70.13 | 4919.97 | 4921.72 | 4918.22 |
| Wajo | 71.175 | 67.72 | 4819.97 | 5065.88 | 4586 |
| Sidenreng Rappang | 73.12 | 70.31 | 5141.07 | 5346.53 | 4943.5 |
| Pinrang | 72.665 | 70.01 | 5087.28 | 5280.2 | 4901.4 |
| Enrekang | 73.495 | 71.085 | 5224.39 | 5401.52 | 5053.08 |
| Luwu | 72.065 | 70.665 | 5092.47 | 5193.36 | 4993.54 |
| Tana Toraja | 70.085 | 73.655 | 5162.11 | 4911.91 | 5425.06 |
| Luwu Utara | 70.33 | 68.945 | 4848.9 | 4946.31 | 4753.41 |
| Luwu Timur | 74.31 | 70.88 | 5267.09 | 5521.98 | 5023.97 |
| Toraja Utara | 69.825 | 73.555 | 5135.98 | 4875.53 | 5410.34 |
| Kota Makasar | 83.02 | 72.335 | 6005.25 | 6892.32 | 5232.35 |
| Kota Parepare | 79.03 | 71.495 | 5650.25 | 6245.74 | 5111.54 |
| Kota Palopo | 79.28 | 71.105 | 5637.2 | 6285.32 | 5055.92 |
| SULAWESI TENGGARA | 73.045 | 71.455 | 5219.43 | 5335.57 | 5105.82 |
| Buton | 67.475 | 68.47 | 4620.01 | 4552.88 | 4688.14 |
| Muna | 70.425 | 70.435 | 4960.38 | 4959.68 | 4961.09 |
| Konawe | 73.465 | 70.355 | 5168.63 | 5397.11 | 4949.83 |
| Kolaka | 74.02 | 71.38 | 5283.55 | 5478.96 | 5095.1 |
| Konawe Selatan | 69.35 | 70.965 | 4921.42 | 4809.42 | 5036.03 |
| Bombana | 66.275 | 69.22 | 4587.56 | 4392.38 | 4791.41 |
| Wakatobi | 71.32 | 70.59 | 5034.48 | 5086.54 | 4982.95 |
| Kolaka Utara | 70.585 | 70.44 | 4972.01 | 4982.24 | 4961.79 |
| Buton Utara | 70.185 | 70.965 | 4980.68 | 4925.93 | 5036.03 |
| Konawe Utara | 70.505 | 69.53 | 4902.21 | 4970.96 | 4834.42 |
| Kolaka Timur | 68.725 | 72.955 | 5013.83 | 4723.13 | 5322.43 |
| Konawe Kepulauan | 66.79 | 68.46 | 4572.44 | 4460.9 | 4686.77 |
| Muna Barat | 66.7 | 70.365 | 4693.35 | 4448.89 | 4951.23 |
| Buton Tengah | 64.575 | 67.72 | 4373.02 | 4169.93 | 4586 |
| Buton Selatan | 62.59 | 67.69 | 4236.72 | 3917.51 | 4581.94 |
| Kota Kendari | 84.78 | 73.955 | 6269.9 | 7187.65 | 5469.34 |
| Kota Baubau | 77.34 | 71.365 | 5519.37 | 5981.48 | 5092.96 |
| GORONTALO | 67.995 | 68.545 | 4660.72 | 4623.32 | 4698.42 |
| Boalemo | 63.97 | 69.615 | 4453.27 | 4092.16 | 4846.25 |
| Gorontalo | 65.18 | 67.755 | 4416.27 | 4248.43 | 4590.74 |
| Pohuwato | 65.69 | 64.6 | 4243.57 | 4315.18 | 4173.16 |
| Bone Bolango | 69.035 | 68.695 | 4742.36 | 4765.83 | 4719 |
| Gorontalo Utara | 63.015 | 66.235 | 4173.8 | 3970.89 | 4387.08 |
| Kota Gorontalo | 76.44 | 72.84 | 5567.89 | 5843.07 | 5305.67 |
| SULAWESI BARAT | 67.28 | 65.67 | 4418.28 | 4526.6 | 4312.55 |
| Majene | 68.295 | 62.08 | 4239.75 | 4664.21 | 3853.93 |
| Polewali Mandar | 65.54 | 62.805 | 4116.24 | 4295.49 | 3944.47 |
| Mamasa | 67.725 | 71.185 | 4821 | 4586.68 | 5067.3 |
| Mamuju | 68.31 | 68.15 | 4655.33 | 4666.26 | 4644.42 |
| Mamuju Utara / Pasangkayu | 67.7 | 66.825 | 4524.05 | 4583.29 | 4465.58 |
| Mamuju Tengah | 66.625 | 68.91 | 4591.13 | 4438.89 | 4748.59 |
| MALUKU | 71.155 | 66.48 | 4730.38 | 5063.03 | 4419.59 |
| Maluku Tenggara Barat / Kepulauan Tanimbar | 62.26 | 63.66 | 3963.47 | 3876.31 | 4052.6 |
| Maluku Tenggara | 67.42 | 65.38 | 4407.92 | 4545.46 | 4274.54 |
| Maluku Tengah | 72.25 | 66.635 | 4814.38 | 5220.06 | 4440.22 |
| Buru | 71.06 | 66.625 | 4734.37 | 5049.52 | 4438.89 |
| Kepulauan Aru | 64.535 | 63.195 | 4078.29 | 4164.77 | 3993.61 |
| Seram Bagian Barat | 66.36 | 62.12 | 4122.28 | 4403.65 | 3858.89 |
| Seram Bagian Timur | 64.755 | 59.93 | 3880.77 | 4193.21 | 3591.6 |
| Maluku Barat Daya | 63.655 | 62.91 | 4004.54 | 4051.96 | 3957.67 |
| Buru Selatan | 66.655 | 66.64 | 4441.89 | 4442.89 | 4440.89 |
| Kota Ambon | 82.13 | 70.94 | 5826.3 | 6745.34 | 5032.48 |
| Kota Tual | 68.91 | 66.095 | 4554.61 | 4748.59 | 4368.55 |
| MALUKU UTARA | 70.745 | 68.815 | 4868.32 | 5004.86 | 4735.5 |
| Halmahera Barat | 66.84 | 66.585 | 4450.54 | 4467.59 | 4433.56 |
| Halmahera Tengah | 66.99 | 64.49 | 4320.19 | 4487.66 | 4158.96 |
| Kepulauan Sula | 65.945 | 63.615 | 4195.09 | 4348.74 | 4046.87 |
| Halmahera Selatan | 65.63 | 66.155 | 4341.75 | 4307.3 | 4376.48 |
| Halmahera Utara | 69.8 | 69.83 | 4874.13 | 4872.04 | 4876.23 |
| Halmahera Timur | 66.865 | 69.475 | 4645.45 | 4470.93 | 4826.78 |
| Pulau Morotai | 59.465 | 67.655 | 4023.1 | 3536.09 | 4577.2 |
| Pulau Taliabu | 62.045 | 62.465 | 3875.64 | 3849.58 | 3901.88 |
| Kota Ternate | 80.875 | 71.315 | 5767.6 | 6540.77 | 5085.83 |
| Kota Tidore Kepulauan | 72.555 | 69.695 | 5056.72 | 5264.23 | 4857.39 |
| PAPUA BARAT | 67.265 | 66.49 | 4472.45 | 4524.58 | 4420.92 |
| Fakfak | 69.425 | 68.73 | 4771.58 | 4819.83 | 4723.81 |
| Kaimana | 65.975 | 65.255 | 4305.2 | 4352.7 | 4258.22 |
| Teluk Wondama | 61.085 | 60.56 | 3699.31 | 3731.38 | 3667.51 |
| Teluk Bintuni | 65.64 | 61.38 | 4028.98 | 4308.61 | 3767.5 |
| Manokwari | 73.535 | 69.18 | 5087.15 | 5407.4 | 4785.87 |
| Sorong Selatan | 63.225 | 66.69 | 4216.48 | 3997.4 | 4447.56 |
| Sorong | 66.755 | 66.56 | 4443.21 | 4456.23 | 4430.23 |
| Raja Ampat | 62.995 | 65.105 | 4101.29 | 3968.37 | 4238.66 |
| Tambrauw | 53.875 | 60.66 | 3268.06 | 2902.52 | 3679.64 |
| Maybrat | 60.98 | 65.5 | 3994.19 | 3718.56 | 4290.25 |
| Manokwari Selatan | 58.01 | 67.8 | 3933.08 | 3365.16 | 4596.84 |
| Pegunungan Arfak | 58 | 67.475 | 3913.55 | 3364 | 4552.88 |
| Kota Sorong | 79.625 | 71.395 | 5684.83 | 6340.14 | 5097.25 |
| PAPUA | 60.24 | 66.25 | 3990.9 | 3628.86 | 4389.06 |
| Merauke | 72.03 | 67.4 | 4854.82 | 5188.32 | 4542.76 |
| Jayawijaya | 58.615 | 60.24 | 3530.97 | 3435.72 | 3628.86 |
| Jayapura | 73.415 | 67.22 | 4934.96 | 5389.76 | 4518.53 |
| Nabire | 71.65 | 68.23 | 4888.68 | 5133.72 | 4655.33 |
| Kepulauan Yapen | 69.45 | 69.24 | 4808.72 | 4823.3 | 4794.18 |
| Biak Numfor | 73.655 | 68.38 | 5036.53 | 5425.06 | 4675.82 |
| Paniai | 52.805 | 66.68 | 3521.04 | 2788.37 | 4446.22 |
| Puncak Jaya | 47.355 | 65.675 | 3110.04 | 2242.5 | 4313.21 |
| Mimika | 71.355 | 72.6 | 5180.37 | 5091.54 | 5270.76 |
| Boven Digoel | 60.985 | 60.765 | 3705.75 | 3719.17 | 3692.39 |
| Mappi | 60.14 | 65.655 | 3948.49 | 3616.82 | 4310.58 |
| Asmat | 45.545 | 58.905 | 2682.83 | 2074.35 | 3469.8 |
| Yahukimo | 52.165 | 66.305 | 3458.8 | 2721.19 | 4396.35 |
| Pegunungan Bintang | 49.035 | 64.605 | 3167.91 | 2404.43 | 4173.81 |
| Tolikara | 47.1 | 66.06 | 3111.43 | 2218.41 | 4363.92 |
| Sarmi | 64.795 | 66.74 | 4324.42 | 4198.39 | 4454.23 |
| Keerom | 67.74 | 66.945 | 4534.85 | 4588.71 | 4481.63 |
| Waropen | 61.18 | 66.67 | 4078.87 | 3742.99 | 4444.89 |
| Supiori | 61.795 | 66.36 | 4100.72 | 3818.62 | 4403.65 |
| Mamberamo Raya | 53.18 | 58.32 | 3101.46 | 2828.11 | 3401.22 |
| Nduga | 35.585 | 55.61 | 1978.88 | 1266.29 | 3092.47 |
| Lanny Jaya | 50.85 | 66.23 | 3367.8 | 2585.72 | 4386.41 |
| Mamberamo Tengah | 49.97 | 64.045 | 3200.33 | 2497 | 4101.76 |
| Yalimo | 53.455 | 65.62 | 3507.72 | 2857.44 | 4305.98 |
| Puncak | 42.775 | 66.29 | 2835.55 | 1829.7 | 4394.36 |
| Dogiyai | 54.74 | 66.13 | 3619.96 | 2996.47 | 4373.18 |
| Intan Jaya | 48.55 | 65.875 | 3198.23 | 2357.1 | 4339.52 |
| Deiyai | 48.405 | 65.665 | 3178.51 | 2343.04 | 4311.89 |
| Kota Jayapura | 81.245 | 70.77 | 5749.71 | 6600.75 | 5008.39 |
| **Total** | 13427.41 | 13457.73 | 916280.3 | 922431.8 | 916832.5 |

Rumus:

47.126

= 0.307329

Maka diperoleh :

|  |  |
| --- | --- |
| a | 47.126 |
| b | 0.307329 |
| Ŷ | 47.126+ 0.307329X |

Jadi, Angka Harapan Hidup (AHH) dipengaruhi oleh Indeks Pembangunan Manusia (IPM) dengan setiap kenaikan angka sebesar satu satuan maka dapat menaikkan Angka Harapan Hidup sebesar 0.3073

sehingga, kalau untuk memprediksi untuk AHH di Kendari tahun 2022 adalah:

Ŷ = a + b(X)

Ŷ = 47.126 + 0.307329 (84.78)

Ŷ = 73.18135262

Jadi, prediksi Angka Harapan Hidup dikendari di tahun 2022 adalah 73.18135262

# b. Keakuratan Prediksi Analisis Regresi

Dalam mencari tahu keakuratan prediksi Analisis Regresi Linier Sederhana, terdapat tiga rumus yang perlu diketahui.

1. Sum of the Squares Total (SST)



1. Sum of the Squares Error (SSE)

SSE = ∑(𝑌 − Ŷ)2

1. Sum of the Squares due to Regression (SSR)



Dengan Diketahui:  
Ȳ= 0.50857142

Tabel 2.3 Sebagai Tabel Bantu:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Provinsi/Kabupaten/Kota | 2022 | | (Y-Ȳ)² | (𝑌 − Ŷ)² | (Ŷ-Ȳ)² |
| IPM(X) | AHH(Y) |
| BALI | 77.19 | 72.61 | 21.54506944 | 3.102087829 | 8.296659091 |
| Jembrana | 74.05 | 72.735 | 22.72111111 | 8.129840693 | 3.668677161 |
| Tabanan | 76.84 | 74.005 | 36.44134444 | 10.6526492 | 7.68856972 |
| Badung | 82.625 | 75.365 | 54.71067778 | 8.09938231 | 20.70910068 |
| Gianyar | 78.775 | 74.035 | 36.80444444 | 7.285454044 | 11.34011445 |
| Klungkung | 73.955 | 71.755 | 14.33884444 | 3.611838693 | 3.557685788 |
| Bangli | 71.43 | 70.905 | 8.624011111 | 3.336064003 | 1.232493275 |
| Karangasem | 69.065 | 70.81 | 8.075069444 | 6.043350079 | 0.146952662 |
| Buleleng | 74.58 | 72.235 | 18.20444444 | 4.789108478 | 4.31917912 |
| Kota Denpasar | 84.655 | 75.22 | 52.58666944 | 4.314192804 | 26.77651788 |
| NUSA TENGGARA BARAT | 70.24 | 67.105 | 0.745344444 | 2.58498534 | 0.55421418 |
| Lombok Barat | 70.65 | 67.71 | 0.066736111 | 1.274175556 | 0.757701511 |
| Lombok Tengah | 68.26 | 66.76 | 1.460069444 | 1.807082105 | 0.018480827 |
| Lombok Timur | 68.215 | 66.555 | 1.997511111 | 2.357599747 | 0.014911927 |
| Sumbawa | 69.82 | 68.14 | 0.029469444 | 0.196879256 | 0.378689402 |
| Dompu | 70.59 | 67.39 | 0.334469444 | 2.04591288 | 0.725939404 |
| Bima | 68.315 | 66.91 | 1.120069444 | 1.466958531 | 0.023362298 |
| Sumbawa Barat | 73.805 | 68.79 | 0.675136111 | 1.03717287 | 3.38590733 |
| Lombok Utara | 65.745 | 67.78 | 0.035469444 | 0.201291215 | 0.405754003 |
| Kota Mataram | 80.38 | 72.22 | 18.07666944 | 0.152798885 | 14.90555802 |
| Kota Bima | 77.275 | 70.86 | 8.361736111 | 0.000220477 | 8.447830269 |
| NUSA TENGGARA TIMUR | 67.44 | 67.485 | 0.233611111 | 0.134885608 | 0.013471217 |
| Sumba Barat | 65.31 | 67.285 | 0.466944444 | 0.007628801 | 0.593942026 |
| Sumba Timur | 67.235 | 65.375 | 6.725377778 | 5.828677011 | 0.032065355 |
| Kupang | 65.225 | 65.205 | 7.636011111 | 3.867256071 | 0.634889138 |
| Timor Tengah Selatan | 64.29 | 66.67 | 1.685669444 | 0.045873676 | 1.175385393 |
| Timor Tengah Utara | 64.91 | 67.265 | 0.494677778 | 0.036204427 | 0.798535156 |
| Belu | 63.795 | 65.24 | 7.443802778 | 2.226223811 | 1.52838769 |
| Alor | 63.48 | 61.93 | 36.46146944 | 22.13932976 | 1.777124718 |
| Lembata | 66.92 | 67.435 | 0.284444444 | 0.066283942 | 0.076107928 |
| Flores Timur | 66.18 | 65.6 | 5.609002778 | 3.478348912 | 0.253311004 |
| Sikka | 66.745 | 67.81 | 0.025069444 | 0.029352562 | 0.108675207 |
| Ende | 68.455 | 65.73 | 5.010136111 | 5.925362234 | 0.038366374 |
| Ngada | 69.35 | 68.29 | 0.103469444 | 0.022280384 | 0.221777718 |
| Manggarai | 66.26 | 67.29 | 0.460136111 | 0.039847961 | 0.229166896 |
| Rote Ndao | 63.24 | 65.21 | 7.608402778 | 1.8265143 | 1.979219532 |
| Manggarai Barat | 66.01 | 67.63 | 0.114469444 | 0.047181361 | 0.308631406 |
| Sumba Tengah | 63.42 | 68.575 | 0.368044444 | 3.834526953 | 1.826628349 |
| Sumba Barat Daya | 63.33 | 68.75 | 0.611002778 | 4.669291868 | 1.902158887 |
| Nagekeo | 66.54 | 67.47 | 0.248336111 | 0.0111665 | 0.15418319 |
| Manggarai Timur | 63.46 | 68.255 | 0.082177778 | 2.643556208 | 1.793550367 |
| Sabu Raijua | 58.935 | 60.84 | 50.81313611 | 19.34622706 | 7.452347012 |
| Malaka | 62.07 | 65.27 | 7.281002778 | 0.868458168 | 3.120247754 |
| Kota Kupang | 81.27 | 70.04 | 4.291802778 | 4.254433565 | 17.09239099 |
| SULAWESI UTARA | 75.08 | 72.1 | 17.07066944 | 3.609007052 | 4.981502538 |
| Bolaang Mongondow | 68.3 | 69.7 | 2.998669444 | 2.507248348 | 0.021974317 |
| Minahasa | 76.94 | 71.395 | 11.74204444 | 0.388262009 | 7.859948262 |
| Kepulauan Sangihe | 71.91 | 70.41 | 5.961736111 | 1.401788773 | 1.581796856 |
| Kepulauan Talaud | 70.69 | 70.48 | 6.308469444 | 2.653357529 | 0.779254054 |
| Minahasa Selatan | 72.32 | 70.245 | 5.183211111 | 0.797389563 | 1.914625542 |
| Minahasa Utara | 75.435 | 71.62 | 13.33466944 | 1.717769044 | 5.480420439 |
| Bolaang Mongondow Utara | 67.99 | 67.985 | 0.000277778 | 0.001317596 | 0.002805331 |
| Siau Tagulandang Biaro | 68.995 | 71.195 | 10.41137778 | 8.207283273 | 0.130921688 |
| Minahasa Tenggara | 72.03 | 70.41 | 5.961736111 | 1.315820355 | 1.675923231 |
| Bolaang Mongondow Selatan | 63.905 | 64.785 | 10.13361111 | 3.923805329 | 1.445942731 |
| Bolaang Mongondow Timur | 67.735 | 68.12 | 0.023002778 | 0.03135385 | 0.000645339 |
| Kota Manado | 80.265 | 72.105 | 17.11201111 | 0.096868977 | 14.6339059 |
| Kota Bitung | 75.21 | 71.3 | 11.10000278 | 1.123146175 | 5.161442173 |
| Kota Tomohon | 77.57 | 72.34 | 19.11146944 | 1.889221303 | 8.983071148 |
| Kota Kotamobagu | 75.09 | 70.885 | 8.506944444 | 0.464667704 | 4.995230707 |
| SULAWESI TENGAH | 71.1 | 68.965 | 0.993344444 | 0.000146214 | 1.017593846 |
| Banggai Kepulauan | 67.855 | 66.68 | 1.659802778 | 1.689504203 | 0.000131698 |
| Banggai | 71.765 | 70.83 | 8.189136111 | 2.717665388 | 1.471690103 |
| Morowali | 71.77 | 69.125 | 1.337877778 | 0.00336427 | 1.475420771 |
| Poso | 72.3 | 71.155 | 10.15484444 | 3.272890932 | 1.897653278 |
| Donggala | 66.335 | 67.56 | 0.166736111 | 0.002240203 | 0.207629789 |
| Toli-Toli | 67.165 | 66.335 | 2.667777778 | 2.05277911 | 0.040232757 |
| Buol | 69.205 | 69.225 | 1.579211111 | 0.689392369 | 0.181791472 |
| Parigi Moutong | 66.3 | 64.215 | 14.08751111 | 10.8037951 | 0.217548207 |
| Tojo Una-Una | 66.805 | 66.035 | 3.737777778 | 2.631253326 | 0.09685757 |
| Sigi | 70.09 | 70.055 | 4.354177778 | 1.927405739 | 0.487701489 |
| Banggai Laut | 67.67 | 65.8 | 4.701669444 | 4.506931266 | 0.002059336 |
| Morowali Utara | 69.975 | 69.655 | 2.844844444 | 1.047865925 | 0.439586824 |
| Kota Palu | 82.05 | 71.11 | 9.870069444 | 1.518672843 | 19.13197325 |
| SULAWESI SELATAN | 74.09 | 70.995 | 9.160711111 | 1.207788669 | 3.715920406 |
| Kepulauan Selayar | 70.385 | 68.675 | 0.499377778 | 0.006781797 | 0.622549928 |
| Bulukumba | 71.395 | 68.385 | 0.173611111 | 0.466152963 | 1.208725703 |
| Bantaeng | 68.97 | 70.77 | 7.849336111 | 5.990348619 | 0.125420662 |
| Jeneponto | 66.51 | 66.74 | 1.508802778 | 0.683022561 | 0.161508775 |
| Takalar | 68.12 | 67.535 | 0.187777778 | 0.27694062 | 0.008633782 |
| Gowa | 70.915 | 70.6 | 6.925669444 | 2.821606978 | 0.906118753 |
| Sinjai | 68.7 | 67.605 | 0.132011111 | 0.402593169 | 0.073532608 |
| Maros | 71.73 | 69.23 | 1.591802778 | 0.003515403 | 1.445707653 |
| Pangkajene dan Kepulauan | 71.03 | 67.035 | 0.871111111 | 3.688623196 | 0.97465375 |
| Barru | 72.69 | 69.285 | 1.733611111 | 0.032668759 | 2.242241729 |
| Bone | 68.095 | 67.43 | 0.289802778 | 0.388837369 | 0.007264992 |
| Soppeng | 70.155 | 70.13 | 4.672802778 | 2.08321305 | 0.516001813 |
| Wajo | 71.175 | 67.72 | 0.061669444 | 1.638762452 | 1.064628248 |
| Sidenreng Rappang | 73.12 | 70.31 | 5.483402778 | 0.507091423 | 2.655476049 |
| Pinrang | 72.665 | 70.01 | 4.168402778 | 0.304635793 | 2.21929086 |
| Enrekang | 73.495 | 71.085 | 9.713611111 | 1.881986539 | 3.044367246 |
| Luwu | 72.065 | 70.665 | 7.272011111 | 1.935814794 | 1.703889154 |
| Tana Toraja | 70.085 | 73.655 | 32.33817778 | 24.89857343 | 0.485557599 |
| Luwu Utara | 70.33 | 68.945 | 0.953877778 | 0.041841288 | 0.596161939 |
| Luwu Timur | 74.31 | 70.88 | 8.477802778 | 0.839755988 | 3.981160861 |
| Toraja Utara | 69.825 | 73.555 | 31.21084444 | 24.69844066 | 0.380582996 |
| Kota Makasar | 83.02 | 72.335 | 19.06777778 | 0.09330189 | 21.8287076 |
| Kota Parepare | 79.03 | 71.495 | 12.43737778 | 0.006526884 | 11.874072 |
| Kota Palopo | 79.28 | 71.105 | 9.838677778 | 0.14902929 | 12.40948424 |
| SULAWESI TENGGARA | 73.045 | 71.455 | 12.15684444 | 3.534976037 | 2.580885535 |
| Buton | 67.475 | 68.47 | 0.251669444 | 0.368419531 | 0.011089998 |
| Muna | 70.425 | 70.435 | 6.084444444 | 2.773407859 | 0.642100107 |
| Konawe | 73.465 | 70.355 | 5.696177778 | 0.423898675 | 3.012278381 |
| Kolaka | 74.02 | 71.38 | 11.63946944 | 2.266552592 | 3.633443074 |
| Konawe Selatan | 69.35 | 70.965 | 8.980011111 | 6.379331481 | 0.221777718 |
| Bombana | 66.275 | 69.22 | 1.566669444 | 2.978283905 | 0.224774468 |
| Wakatobi | 71.32 | 70.59 | 6.873136111 | 2.387938862 | 1.158574415 |
| Kolaka Utara | 70.585 | 70.44 | 6.109136111 | 2.628232812 | 0.723323258 |
| Buton Utara | 70.185 | 70.965 | 8.980011111 | 5.148878958 | 0.529332686 |
| Konawe Utara | 70.505 | 69.53 | 2.438802778 | 0.541355808 | 0.682107195 |
| Kolaka Timur | 68.725 | 72.955 | 24.86684444 | 22.16351713 | 0.077758545 |
| Konawe Kepulauan | 66.79 | 68.46 | 0.241736111 | 0.652049935 | 0.099748225 |
| Muna Barat | 66.7 | 70.365 | 5.744011111 | 7.50845326 | 0.117984716 |
| Buton Tengah | 64.575 | 67.72 | 0.061669444 | 0.559847871 | 0.993138129 |
| Buton Selatan | 62.59 | 67.69 | 0.077469444 | 1.764322153 | 2.581199623 |
| Kota Kendari | 84.78 | 73.955 | 35.84017778 | 0.598530269 | 27.17557008 |
| Kota Baubau | 77.34 | 71.365 | 11.53734444 | 0.221064662 | 8.564352656 |
| GORONTALO | 67.995 | 68.545 | 0.332544444 | 0.272655916 | 0.00297047 |
| Boalemo | 63.97 | 69.615 | 2.711511111 | 8.004168203 | 1.398299636 |
| Gorontalo | 65.18 | 67.755 | 0.045511111 | 0.356762249 | 0.657119559 |
| Pohuwato | 65.69 | 64.6 | 11.34566944 | 7.368195426 | 0.427573863 |
| Bone Bolango | 69.035 | 68.695 | 0.528044444 | 0.124286204 | 0.139968903 |
| Gorontalo Utara | 63.015 | 66.235 | 3.004444444 | 0.066222298 | 2.178565368 |
| Kota Gorontalo | 76.44 | 72.84 | 23.73313611 | 4.936267443 | 7.021945772 |
| SULAWESI BARAT | 67.28 | 65.67 | 5.282336111 | 4.550094791 | 0.027303667 |
| Majene | 68.295 | 62.08 | 34.67246944 | 36.42163605 | 0.021521102 |
| Polewali Mandar | 65.54 | 62.805 | 26.66001111 | 19.9214277 | 0.489986943 |
| Mamasa | 67.725 | 71.185 | 10.34694444 | 10.53095617 | 0.000810929 |
| Mamuju | 68.31 | 68.15 | 0.033002778 | 0.000921487 | 0.022894915 |
| Mamuju Utara / Pasangkayu | 67.7 | 66.825 | 1.307211111 | 1.225832716 | 0.001307548 |
| Mamuju Tengah | 66.625 | 68.91 | 0.886736111 | 1.711401303 | 0.134350625 |
| MALUKU | 71.155 | 66.48 | 2.215136111 | 6.320170835 | 1.051981844 |
| Maluku Tenggara Barat / Kepulauan Tanimbar | 62.26 | 63.66 | 18.56173611 | 6.7615785 | 2.917365775 |
| Maluku Tenggara | 67.42 | 65.38 | 6.699469444 | 6.081753674 | 0.01493581 |
| Maluku Tengah | 72.25 | 66.635 | 1.777777778 | 7.265829418 | 1.855553196 |
| Buru | 71.06 | 66.625 | 1.804544444 | 5.474658144 | 0.992943307 |
| Kepulauan Aru | 64.535 | 63.195 | 22.78471111 | 14.1712872 | 1.017791071 |
| Seram Bagian Barat | 66.36 | 62.12 | 34.20300278 | 29.16380648 | 0.200686881 |
| Seram Bagian Timur | 64.755 | 59.93 | 64.61480278 | 50.36867788 | 0.885940151 |
| Maluku Barat Daya | 63.655 | 62.91 | 25.58673611 | 14.28104881 | 1.636623428 |
| Buru Selatan | 66.655 | 66.64 | 1.764469444 | 0.94286915 | 0.127676752 |
| Kota Ambon | 82.13 | 70.94 | 8.830802778 | 2.036131422 | 19.34765941 |
| Kota Tual | 68.91 | 66.095 | 3.509377778 | 4.879863863 | 0.112699899 |
| MALUKU UTARA | 70.745 | 68.815 | 0.716844444 | 0.002807951 | 0.809382307 |
| Halmahera Barat | 66.84 | 66.585 | 1.913611111 | 1.172608217 | 0.090277998 |
| Halmahera Tengah | 66.99 | 64.49 | 12.09880278 | 10.39398069 | 0.064700853 |
| Kepulauan Sula | 65.945 | 63.615 | 18.95151111 | 14.27185523 | 0.331226066 |
| Halmahera Selatan | 65.63 | 66.155 | 3.288177778 | 1.30188618 | 0.452029059 |
| Halmahera Utara | 69.8 | 69.83 | 3.465802778 | 1.568595433 | 0.371162249 |
| Halmahera Timur | 66.865 | 69.475 | 2.270044444 | 3.2380074 | 0.085719981 |
| Pulau Morotai | 59.465 | 67.655 | 0.098177778 | 5.079078117 | 6.589562665 |
| Pulau Taliabu | 62.045 | 62.465 | 30.28667778 | 13.90714002 | 3.147450426 |
| Kota Ternate | 80.875 | 71.315 | 11.20017778 | 0.443866244 | 16.10336273 |
| Kota Tidore Kepulauan | 72.555 | 69.695 | 2.981377778 | 0.073302533 | 2.119709632 |
| PAPUA BARAT | 67.265 | 66.49 | 2.185469444 | 1.712133479 | 0.028848393 |
| Fakfak | 69.425 | 68.73 | 0.580136111 | 0.071654818 | 0.244018702 |
| Kaimana | 65.975 | 65.255 | 7.362177778 | 4.609741149 | 0.320698588 |
| Teluk Wondama | 61.085 | 60.56 | 54.88340278 | 28.50697084 | 4.281346002 |
| Teluk Bintuni | 65.64 | 61.38 | 43.40613611 | 35.03545548 | 0.447905967 |
| Manokwari | 73.535 | 69.18 | 1.468136111 | 0.297502628 | 3.087416862 |
| Sorong Selatan | 63.225 | 66.69 | 1.634136111 | 0.017721993 | 1.992211733 |
| Sorong | 66.755 | 66.56 | 1.983402778 | 1.170177427 | 0.106658375 |
| Raja Ampat | 62.995 | 65.105 | 8.198677778 | 1.907686797 | 2.196747808 |
| Tambrauw | 53.875 | 60.66 | 53.41173611 | 9.140644467 | 18.36108324 |
| Maybrat | 60.98 | 65.5 | 6.092669444 | 0.134632062 | 4.415927827 |
| Manokwari Selatan | 58.01 | 67.8 | 0.028336111 | 8.098832113 | 9.085269277 |
| Pegunungan Arfak | 58 | 67.475 | 0.243377778 | 6.370162071 | 9.103805609 |
| Kota Sorong | 79.625 | 71.395 | 11.74204444 | 0.040832942 | 13.16774159 |
| PAPUA | 60.24 | 66.25 | 2.952669444 | 0.37271152 | 5.423469538 |
| Merauke | 72.03 | 67.4 | 0.323002778 | 3.470425732 | 1.675923231 |
| Jayawijaya | 58.615 | 60.24 | 59.72713611 | 24.01087549 | 7.998964114 |
| Jayapura | 73.415 | 67.22 | 0.560002778 | 6.093781241 | 2.959174744 |
| Nabire | 71.65 | 68.23 | 0.068469444 | 0.839281076 | 1.387188146 |
| Kepulauan Yapen | 69.45 | 69.24 | 1.617136111 | 0.592901463 | 0.251668491 |
| Biak Numfor | 73.655 | 68.38 | 0.169469444 | 1.910801657 | 3.218379172 |
| Paniai | 52.805 | 66.68 | 1.659802778 | 11.05889807 | 21.28738564 |
| Puncak Jaya | 47.355 | 65.675 | 5.259377778 | 15.96350248 | 39.54860973 |
| Mimika | 71.355 | 72.6 | 21.45233611 | 12.56375818 | 1.181846118 |
| Boven Digoel | 60.985 | 60.765 | 51.88801111 | 26.04529443 | 4.409471943 |
| Mappi | 60.14 | 65.655 | 5.351511111 | 0.002137577 | 5.567557717 |
| Asmat | 45.545 | 58.905 | 82.14401111 | 4.920851807 | 46.85449085 |
| Yahukimo | 52.165 | 66.305 | 2.766677778 | 9.904759042 | 23.14106465 |
| Pegunungan Bintang | 49.035 | 64.605 | 11.31201111 | 5.803871148 | 33.32124617 |
| Tolikara | 47.1 | 66.06 | 3.641736111 | 19.880934 | 40.54043909 |
| Sarmi | 64.795 | 66.74 | 1.508802778 | 0.089629914 | 0.862949549 |
| Keerom | 67.74 | 66.945 | 1.047211111 | 0.998933205 | 0.000569628 |
| Waropen | 61.18 | 66.67 | 1.685669444 | 0.549988032 | 4.161376065 |
| Supiori | 61.795 | 66.36 | 2.586736111 | 0.058856917 | 3.425970659 |
| Mamberamo Raya | 53.18 | 58.32 | 93.09033611 | 26.51998913 | 20.23719604 |
| Nduga | 35.585 | 55.61 | 152.7284028 | 6.01378738 | 98.12944756 |
| Lanny Jaya | 50.85 | 66.23 | 3.021802778 | 12.08480318 | 27.19261304 |
| Mamberamo Tengah | 49.97 | 64.045 | 15.39254444 | 2.439125127 | 30.08635715 |
| Yalimo | 53.455 | 65.62 | 5.514669444 | 4.26723343 | 19.48394015 |
| Puncak | 42.775 | 66.29 | 2.816802778 | 36.21634837 | 59.23357795 |
| Dogiyai | 54.74 | 66.13 | 3.379469444 | 4.755934611 | 16.15351747 |
| Intan Jaya | 48.55 | 65.875 | 4.382044444 | 14.65493953 | 35.06428522 |
| Deiyai | 48.405 | 65.665 | 5.305344444 | 13.41566251 | 35.5940281 |
| Kota Jayapura | 81.245 | 70.77 | 7.849336111 | 1.755478206 | 17.02892059 |

|  |  |
| --- | --- |
| SST | = ∑(Y-Ȳ)²  = 2133.01865 |
| SSE | = ∑(𝑌 − Ŷ)²  =1013.838359 |
| SSR | = ∑ (Ŷ-Ȳ)²  = 1119.17561 |

Scatterplot Diagram:

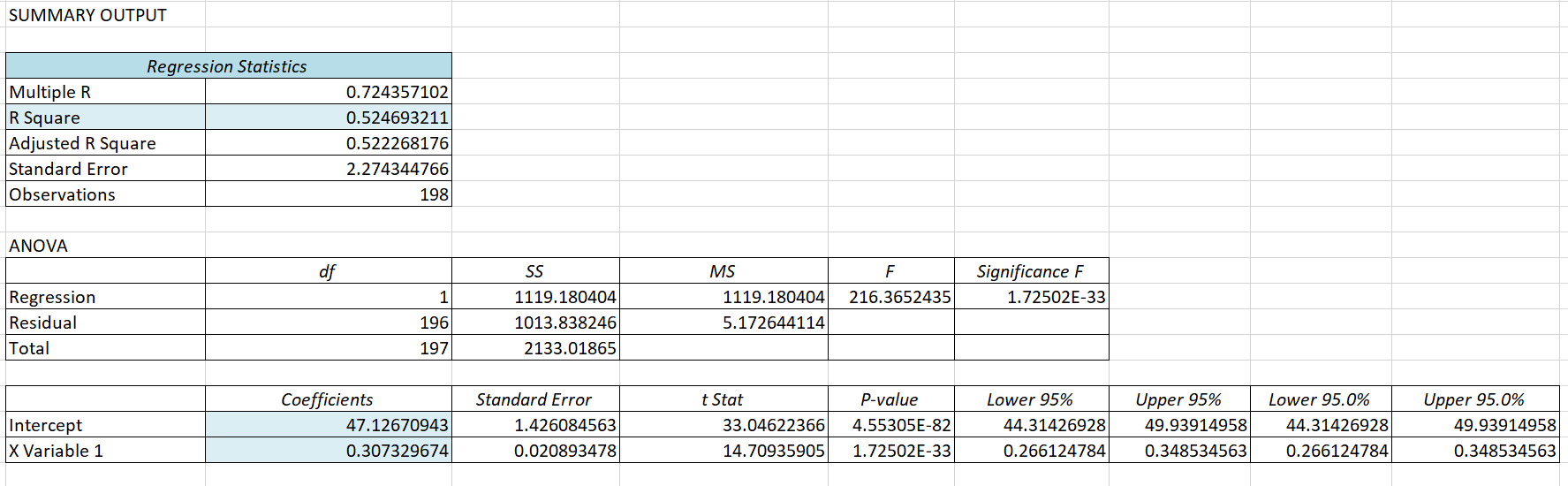
Coefficient of Determination (r2) berguna untuk mencari nilai akhir atau yang dimaksud sebagai langkah terakhir dalam mengetahui keakuratan dari hasil Analisis Regresi Linier Sederhana.

0.524690963

Jadi, keragaman besarnya kenaikan Angka Harapan Hidup dapat dijelaskan oleh besarnya presentase Indeks Pembangunan Manusia sebesar 52.47%. Sedangkan sisanya dijelaskan oleh faktor lain diluar model.

Dokumentasi Pengerjaan Analisis Regresi Linier Sederhana dengan studi kasus Analisis Pengaruh Indeks Pembangunan Manusia terhadap Angka Harapan Hidup di Wilayah Indonesia Timur menggunakan Microsoft Excel:

Tabel Annova



Tabel Residual Output :

|  |  |  |  |
| --- | --- | --- | --- |
| RESIDUAL OUTPUT | |  |  |
|  |  |  |  |
| *Observation* | *Predicted Y* | *Residuals* | *Standard Residuals* |
| 1 | 70.84948694 | 1.760513063 | 0.77604701 |
| 2 | 69.88447176 | 2.850528239 | 1.256533655 |
| 3 | 70.74192155 | 3.263078449 | 1.4383888 |
| 4 | 72.51982371 | 2.845176287 | 1.254174476 |
| 5 | 71.33660447 | 2.698395531 | 1.189472447 |
| 6 | 69.85527544 | 1.899724557 | 0.837412452 |
| 7 | 69.07926802 | 1.825731983 | 0.804795986 |
| 8 | 68.35243334 | 2.457566661 | 1.083313324 |
| 9 | 70.04735649 | 2.187643511 | 0.964329229 |
| 10 | 73.14370295 | 2.07629705 | 0.915246896 |
| 11 | 68.71354571 | -1.608545705 | -0.709058689 |
| 12 | 68.83955087 | -1.129550871 | -0.497914269 |
| 13 | 68.10503295 | -1.345032951 | -0.592900343 |
| 14 | 68.09120312 | -1.536203116 | -0.677169547 |
| 15 | 68.58446724 | -0.444467242 | -0.195924405 |
| 16 | 68.82111109 | -1.431111091 | -0.630844215 |
| 17 | 68.12193608 | -1.211936083 | -0.534230272 |
| 18 | 69.80917599 | -1.019175991 | -0.449260217 |
| 19 | 67.33209882 | 0.447901178 | 0.197438109 |
| 20 | 71.8298686 | 0.390131405 | 0.171972771 |
| 21 | 70.87560996 | -0.015609959 | -0.006880984 |
| 22 | 67.85302262 | -0.368022619 | -0.162227057 |
| 23 | 67.19841041 | 0.086589586 | 0.038169322 |
| 24 | 67.79002004 | -2.415020036 | -1.064558461 |
| 25 | 67.17228739 | -1.967287392 | -0.867194643 |
| 26 | 66.88493415 | -0.214934147 | -0.094744541 |
| 27 | 67.07547854 | 0.189521455 | 0.083542441 |
| 28 | 66.73280596 | -1.492805959 | -0.658039764 |
| 29 | 66.63599711 | -4.705997111 | -2.074437879 |
| 30 | 67.69321119 | -0.258211189 | -0.113821377 |
| 31 | 67.46578723 | -1.86578723 | -0.822452631 |
| 32 | 67.6394285 | 0.170571504 | 0.075189164 |
| 33 | 68.16496224 | -2.434962238 | -1.073349129 |
| 34 | 68.4400223 | -0.150022296 | -0.066130923 |
| 35 | 67.4903736 | -0.200373604 | -0.088326147 |
| 36 | 66.56223799 | -1.35223799 | -0.596076377 |
| 37 | 67.41354119 | 0.216458814 | 0.095416625 |
| 38 | 66.61755733 | 1.957442669 | 0.862855017 |
| 39 | 66.58989766 | 2.16010234 | 0.952188879 |
| 40 | 67.57642591 | -0.106425913 | -0.046913319 |
| 41 | 66.62985052 | 1.625149482 | 0.716377755 |
| 42 | 65.23918374 | -4.399183745 | -1.939192307 |
| 43 | 66.20266227 | -0.932662272 | -0.411124337 |
| 44 | 72.103392 | -2.063392005 | -0.909558258 |
| 45 | 70.20102133 | 1.898978675 | 0.837083662 |
| 46 | 68.11732614 | 1.582673862 | 0.697654191 |
| 47 | 70.77265452 | 0.622345482 | 0.274334431 |
| 48 | 69.22678626 | 1.18321374 | 0.521569254 |
| 49 | 68.85184406 | 1.628155942 | 0.717703024 |
| 50 | 69.35279143 | 0.892208574 | 0.393292052 |
| 51 | 70.31012336 | 1.309876641 | 0.577403185 |
| 52 | 68.02205394 | -0.037053939 | -0.016333647 |
| 53 | 68.33092026 | 2.864079739 | 1.262507256 |
| 54 | 69.26366582 | 1.146334179 | 0.505312474 |
| 55 | 66.76661222 | -1.981612223 | -0.873509133 |
| 56 | 67.94368487 | 0.176315127 | 0.077720995 |
| 57 | 71.79452568 | 0.310474317 | 0.136859345 |
| 58 | 70.24097418 | 1.059025817 | 0.466826311 |
| 59 | 70.96627221 | 1.373727787 | 0.605549236 |
| 60 | 70.20409462 | 0.680905378 | 0.300148061 |
| 61 | 68.97784922 | -0.012849224 | -0.005664032 |
| 62 | 67.98056443 | -1.300564433 | -0.573298296 |
| 63 | 69.18222346 | 1.647776543 | 0.726351928 |
| 64 | 69.18376011 | -0.058760106 | -0.025901884 |
| 65 | 69.34664483 | 1.808355167 | 0.797136158 |
| 66 | 67.51342333 | 0.04657667 | 0.020531336 |
| 67 | 67.76850696 | -1.433506959 | -0.631900332 |
| 68 | 68.39545949 | 0.829540507 | 0.365667511 |
| 69 | 67.50266679 | -3.287666791 | -1.44922752 |
| 70 | 67.65786828 | -1.622868276 | -0.715372183 |
| 71 | 68.66744625 | 1.387553746 | 0.61164382 |
| 72 | 67.92370844 | -2.123708444 | -0.936146184 |
| 73 | 68.63210334 | 1.022896658 | 0.450900314 |
| 74 | 72.34310915 | -1.23310915 | -0.543563515 |
| 75 | 69.89676495 | 1.098235052 | 0.484110027 |
| 76 | 68.75810851 | -0.083108508 | -0.036634837 |
| 77 | 69.06851148 | -0.683511478 | -0.301296849 |
| 78 | 68.32323702 | 2.44676298 | 1.078550982 |
| 79 | 67.56720602 | -0.827206022 | -0.364638453 |
| 80 | 68.0620068 | -0.527006797 | -0.232308443 |
| 81 | 68.92099323 | 1.679006765 | 0.740118438 |
| 82 | 68.24025801 | -0.635258008 | -0.280026367 |
| 83 | 69.17146692 | 0.058533081 | 0.02580181 |
| 84 | 68.95633615 | -1.921336147 | -0.846938999 |
| 85 | 69.46650341 | -0.181503405 | -0.080008026 |
| 86 | 68.05432356 | -0.624323555 | -0.27520638 |
| 87 | 68.68742268 | 1.442577317 | 0.635898612 |
| 88 | 69.00089895 | -1.28089895 | -0.564629607 |
| 89 | 69.59865517 | 0.711344835 | 0.313565996 |
| 90 | 69.45882016 | 0.551179836 | 0.242964095 |
| 91 | 69.71390379 | 1.371096207 | 0.604389217 |
| 92 | 69.27442236 | 1.390577641 | 0.612976775 |
| 93 | 68.66590961 | 4.989090394 | 2.199227465 |
| 94 | 68.74120538 | 0.203794624 | 0.089834158 |
| 95 | 69.96437748 | 0.915622523 | 0.403613092 |
| 96 | 68.58600389 | 4.96899611 | 2.190369757 |
| 97 | 72.64121893 | -0.306218934 | -0.134983541 |
| 98 | 71.41497354 | 0.080026464 | 0.035276249 |
| 99 | 71.49180595 | -0.386805954 | -0.170506888 |
| 100 | 69.57560544 | 1.87939456 | 0.828450841 |
| 101 | 67.86377916 | 0.606220842 | 0.267226573 |
| 102 | 68.77040169 | 1.664598305 | 0.733767084 |
| 103 | 69.7046839 | 0.650316098 | 0.286664083 |
| 104 | 69.87525187 | 1.504748129 | 0.663303959 |
| 105 | 68.4400223 | 2.524977704 | 1.113028604 |
| 106 | 67.49498355 | 1.725016451 | 0.760399844 |
| 107 | 69.04546175 | 1.544538247 | 0.680843734 |
| 108 | 68.81957444 | 1.620425558 | 0.714295414 |
| 109 | 68.69664257 | 2.268357427 | 0.999908512 |
| 110 | 68.79498807 | 0.735011931 | 0.323998625 |
| 111 | 68.24794125 | 4.70705875 | 2.074905857 |
| 112 | 67.65325833 | 0.806741669 | 0.355617617 |
| 113 | 67.62559866 | 2.73940134 | 1.207548107 |
| 114 | 66.9725231 | 0.747476896 | 0.329493272 |
| 115 | 66.3624737 | 1.327526298 | 0.585183283 |
| 116 | 73.18211916 | 0.772880841 | 0.340691516 |
| 117 | 70.89558639 | 0.469413612 | 0.206920947 |
| 118 | 68.02359059 | 0.521409412 | 0.229841075 |
| 119 | 66.78658865 | 2.828411349 | 1.246784369 |
| 120 | 67.15845756 | 0.596542443 | 0.262960264 |
| 121 | 67.31519569 | -2.71519569 | -1.19687808 |
| 122 | 68.34321345 | 0.351786552 | 0.15507008 |
| 123 | 66.49308881 | -0.258088813 | -0.113767433 |
| 124 | 70.61898968 | 2.221010319 | 0.979037561 |
| 125 | 67.80384987 | -2.133849871 | -0.9406166 |
| 126 | 68.11578949 | -6.03578949 | -2.660620066 |
| 127 | 67.26909624 | -4.464096239 | -1.967806209 |
| 128 | 67.94061158 | 3.244388424 | 1.4301501 |
| 129 | 68.12039943 | 0.029600565 | 0.013048145 |
| 130 | 67.93292833 | -1.107928334 | -0.488382897 |
| 131 | 67.60254893 | 1.307451065 | 0.576333973 |
| 132 | 68.99475236 | -2.514752356 | -1.108521196 |
| 133 | 66.26105491 | -2.60105491 | -1.146563991 |
| 134 | 67.84687603 | -2.466876025 | -1.087416959 |
| 135 | 69.33127835 | -2.696278349 | -1.188539178 |
| 136 | 68.96555604 | -2.340556037 | -1.031734187 |
| 137 | 66.96022992 | -3.765229917 | -1.659740832 |
| 138 | 67.52110657 | -5.401106571 | -2.380847203 |
| 139 | 67.02784245 | -7.097842445 | -3.128780762 |
| 140 | 66.6897798 | -3.779779804 | -1.666154529 |
| 141 | 67.61176883 | -0.971768825 | -0.428362792 |
| 142 | 72.36769552 | -1.427695524 | -0.629338609 |
| 143 | 68.30479724 | -2.209797239 | -0.974094754 |
| 144 | 68.86874719 | -0.05374719 | -0.023692154 |
| 145 | 67.66862481 | -1.083624815 | -0.477669728 |
| 146 | 67.71472427 | -3.224724266 | -1.421481996 |
| 147 | 67.39356476 | -3.778564757 | -1.665618927 |
| 148 | 67.29675591 | -1.14175591 | -0.503294339 |
| 149 | 68.57832065 | 1.251679351 | 0.551749395 |
| 150 | 67.67630806 | 1.798691943 | 0.792876539 |
| 151 | 65.40206847 | 2.252931528 | 0.993108663 |
| 152 | 66.19497903 | -3.72997903 | -1.644201984 |
| 153 | 71.98199678 | -0.666996784 | -0.294017051 |
| 154 | 69.4250139 | 0.269986101 | 0.119011844 |
| 155 | 67.79923993 | -1.309239926 | -0.577122516 |
| 156 | 68.46307202 | 0.266927979 | 0.117663802 |
| 157 | 67.40278465 | -2.147784647 | -0.946759151 |
| 158 | 65.89994254 | -5.339942543 | -2.353885653 |
| 159 | 67.29982921 | -5.919829206 | -2.609503927 |
| 160 | 69.72619698 | -0.54619698 | -0.240767616 |
| 161 | 66.55762804 | 0.132371955 | 0.058350524 |
| 162 | 67.64250179 | -1.082501793 | -0.477174692 |
| 163 | 66.48694222 | -1.38194222 | -0.609170218 |
| 164 | 63.6840956 | -3.024095596 | -1.333043414 |
| 165 | 65.86767293 | -0.367672927 | -0.16207291 |
| 166 | 64.9549038 | 2.845096203 | 1.254139175 |
| 167 | 64.9518305 | 2.5231695 | 1.112231534 |
| 168 | 71.59783469 | -0.202834692 | -0.089411013 |
| 169 | 65.64024897 | 0.609751031 | 0.268782705 |
| 170 | 69.26366582 | -1.863665821 | -0.821517498 |
| 171 | 65.14083825 | -4.900838249 | -2.160325275 |
| 172 | 69.68931742 | -2.469317419 | -1.088493143 |
| 173 | 69.14688054 | -0.916880545 | -0.404167637 |
| 174 | 68.47075526 | 0.769244737 | 0.339088695 |
| 175 | 69.76307654 | -1.38307654 | -0.609670235 |
| 176 | 63.35525285 | 3.324747154 | 1.465572815 |
| 177 | 61.68030612 | 3.994693876 | 1.76089022 |
| 178 | 69.05621829 | 3.543781709 | 1.562124846 |
| 179 | 65.86920958 | -5.104209576 | -2.24997284 |
| 180 | 65.609516 | 0.045483998 | 0.020049679 |
| 181 | 61.12403942 | -2.219039415 | -0.978168773 |
| 182 | 63.15856185 | 3.146438145 | 1.386972903 |
| 183 | 62.19661998 | 2.408380024 | 1.061631495 |
| 184 | 61.60193706 | 4.458062942 | 1.965146687 |
| 185 | 67.04013563 | -0.300135632 | -0.132301978 |
| 186 | 67.94522152 | -1.000221521 | -0.440904948 |
| 187 | 65.92913886 | 0.740861138 | 0.326576998 |
| 188 | 66.11814661 | 0.241853389 | 0.106610739 |
| 189 | 63.47050147 | -5.150501473 | -2.270378646 |
| 190 | 58.06303587 | -2.453035866 | -1.081316116 |
| 191 | 62.75442333 | 3.475576666 | 1.532059565 |
| 192 | 62.48397322 | 1.561026779 | 0.688111999 |
| 193 | 63.55501713 | 2.064982867 | 0.910259521 |
| 194 | 60.27273622 | 6.017263781 | 2.652453799 |
| 195 | 63.94993576 | 2.180064236 | 0.960988229 |
| 196 | 62.04756508 | 3.827434916 | 1.68716125 |
| 197 | 62.00300228 | 3.661997718 | 1.614235326 |
| 198 | 72.09570876 | -1.325708763 | -0.5843821 |

Diagram Plot Residual

Diagram Prediksi Y

Source data : <https://www.archive.bps.go.id/indicator/40/455/1/angka-harapan-hidup-ahh-menurut-kabupaten-kota-dan-jenis-kelamin.html>

<https://www.archive.bps.go.id/indicator/40/462/1/indeks-pembangunan-manusia-ipm-menurut-jenis-kelamin.html>