**Submitted by :**

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***STATISTICS PROJECT***

**DESCRIPTIVE STATISTICS:**

1. **How many total jobless in AZAD JUMMMU AND KASHMIR ?**

=SUMIFS(J:J,B:B,"AZAD JUMMU AND KASHMIR")

|  |
| --- |
| 194966 |

**2.How many total jobless in PUNJAB?**

=SUMIFS(J:J,B:B,"PUNJAB")

|  |
| --- |
| 52134 |

**3.What is the Average of all jobless across punjab districts?**

=AVERAGEIFS(J:J,B:B,"PUNJAB")

|  |
| --- |
| 4739.454545 |

**4.What is the Average of all jobless across AZAD JUMMMU AND KASHMIR districts?**

=AVERAGEIFS(J:J,B:B," AZAD JUMMMU AND KASHMIR")

|  |
| --- |
| 19496.6 |

**5.Calculate the variance between jobless of all Provinces?**

=VAR(J:J)

|  |
| --- |
| 571839039 |

**6.calculate the standard deviation of jobless of all provinces?**

=STDEV(J:J)

|  |
| --- |
| 23913.15619 |

**7.Determine the skewness of jobless distribution for AZAD JUMMU AND KASHMIR?**

=SKEW(J2:J11)

|  |
| --- |
| 0.660984236 |
| * Distribution is positively skewed | |

**8.Determine the skewness of jobless distribution for PUNJAB?**

=SKEW(J56:J66)

|  |  |  |  |
| --- | --- | --- | --- |
| 0.790594764   * Distribution is positively skewed |  |  |  |

**9.Determine the Kurtosis of jobless distribution for AZAD JUMMU AND KASHMIR?**

=KURT(J2:J11)

|  |
| --- |
| 0.784419417 |
| * Distribution has thinner tails and a flatter peak then normal distribution |

**10.Determine the kurtosis of jobless distribution for PUNJAB?**

=KURT(J56:J66)

|  |
| --- |
| -1.020351365   * Distribution has thinner tails and a flatter peak then normal distribution |

**11.Campare the kurtosis of jobless of PUNJAB and AZAD JUMMU AND KASHMIR?**

kurtosis of jobless of AZAD JUMMU AND KASHMIR:

=KURT(J2:J11)

|  |
| --- |
| 0.784419417 |

kurtosis of jobless of PUNJAB

=KURT(J56:J66)

|  |
| --- |
| -1.020351365 |

Compare the kurtosis

|  |
| --- |
| 0.784419417 |

|  |
| --- |
| -1.020351365 |
|  |

**Probability:**

**12.What is the probability of being jobless person from AZAD JUMMU AND KASHMIR?**

=COUNTIFS(B:B,"AZAD JUMMU AND KASHMIR",J:J,"<>")

|  |
| --- |
| 10 |

**13.What is the probability of being jobless person from PUNJAB?**

=COUNTIFS(B:B,"PUNJAB",J:J,"<>")

|  |
| --- |
| 11 |

**14.What is the probability of being jobless person from BALOCHISTAN?**

=COUNTIFS(B:B,"BALOCHISTAN",J:J,"<>")

|  |
| --- |
| 21 |

**15.What is the probability of being jobless person from SINDH?**

=COUNTIFS(B:B,"SINDH",J:J,"<>")

|  |
| --- |
| 9 |

**16.What is the probability of being jobless person from KPK?**

=COUNTIFS(B:B,"KPK",J:J,"<>")

|  |
| --- |
| 13 |

**17.What is the probability of being jobless person from GILGIT BALTISTAN?**

=COUNTIFS(B:B,"GILGIT BALTISTAN",J:J,"<>")

|  |
| --- |
| 10 |

**18.Identify which area has a higher proportion of jobless?**

AZAD JUMMU AND KASHMIR 10

GILGIT BALTISTAN 10

KPK 13

SINDH 09

BALOCHISTAN 21

PUNJAB 11

* Balochistan has higher proportion of jobless

**CORRELATION AND COVARIANCE:**

**19.Find the correlation between educated and job of PUNJAB?**

=CORREL(H56:H66,I56:I66)

|  |
| --- |
| 0.999999997 |

**20.Find the correlation between educated and job of AZAD JUMMU AND KASHMIR?**

=CORREL(H2:H11,I2:I11)

|  |
| --- |
| 0.999999999 |

**21.Find the correlation between educated and jobless of PUNJAB?**

=CORREL(H56:H66,J56:J66)

|  |
| --- |
| 0.999999999 |

**22.Find the correlation between educated and jobless of AZAD JUMMU AND KASHMIR?**

=CORREL(H2:H11,J2:J11)

|  |
| --- |
| 1 |

**23.Find the covariance between educated and job of PUNJAB?**

=COVAR(H56:H66,I56:I66)

|  |
| --- |
| 21008704.31 |

**24.Find the covariance between educated and job of AZAD JUMMU AND KASHMIR?**

=COVAR(H2:H11,I2:I11)

|  |
| --- |
| 110492432.5 |

**25.Find the covariance between educated and jobless of PUNJAB?**

=COVAR(H56:H66,J56:J66)

|  |
| --- |
| 42017360.87 |

**26.Find the covariance between educated and jobless of AZAD JUMMU AND KASHMIR?**

=COVAR(H2:H11,J2:J11)

|  |
| --- |
| 220983058 |

**INFERENTIAL STATISTIC :**

**27.Calculate 95% of confidence interval for the mean jobless of all district of PUNJAB?**

* **MEAN**

|  |
| --- |
| 4739.454545 |

=AVERAGE(J56:J66)

* **STANDARD DEVIATION**

|  |
| --- |
| * 5550.920615 |

=STDEV.S(J56:J66)

* **SAMPLE SIZE**

11

* **PERCENTAGE**

95%

* **STANDARD ERROR**

|  |
| --- |
| * 104.9501733 |

=CONFIDENCE(0.95,M28,M29)

* **MEAN-STANDARD ERROR**

|  |
| --- |
| * 4844**.**404719 |

=M27+M35

* **MEAN-STANDARD ERROR**

|  |
| --- |
| * 4634.504372 |

=M27-M35

**28.Calculate 95% of confidence interval for the mean jobless of all district of all AZAD JUMMU AND KASHMIR?**

* **MEAN**

|  |
| --- |
| 19496.6 |

=AVERAGE(J2:J11)

* **STANDARD DEVIATION**

|  |
| --- |
| 12794.16695 |

=STDEV.S(J2:J11)

* **SAMPLE SIZE**

10

* **PERCENTAGE**

95%

* **STANDARD ERROR**

|  |
| --- |
| 267.4269954 |

=CONFIDENCE(0.95,M33,9)

* **MEAN-STANDARD ERROR**

|  |
| --- |
| * **19764.027** |

=M32+M36

* **MEAN-STANDARD ERROR**

|  |
| --- |
| 19229.173 |

=M32-M36

**Final Report:**

The analysis of joblessness across various regions of Pakistan reveals significant disparities. Azad Jammu and Kashmir exhibits a higher average joblessness compared to Punjab, reflecting more severe unemployment issues in that region. The positive skewness in the data for both regions suggests a concentration of jobless individuals in lower jobless categories, with a tendency for higher numbers in certain areas. Balochistan stands out with the highest proportion of jobless individuals. The near-perfect correlation between education and joblessness highlights the critical role of educational attainment in employment outcomes. The confidence intervals for joblessness in both Punjab and Azad Jammu and Kashmir provide a range within which the true mean joblessness is likely to fall, offering valuable insights for policymakers.

This analysis underscores the need for targeted interventions and policies to address unemployment disparities and improve educational opportunities across different regions.