

# Statistical foundation of Data Sciences

## Practical- 03

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Workflow summary:

1. Imported Dataset: Loaded student\_rating.xlsx using pandas.
2. Data Exploration: Checked basic info, structure, and sample records.
3. Q1: Calculated % of visible minorities who are tenured and compared with non-minorities.
4. Q2: Computed mean and standard deviation of age by tenure status.
5. Q3: Used a histogram to visualize age distribution.
6. Q4: Explained difference between bar and barh and plotted gender counts.
7. Q5: Found the median evaluation score for tenured professors.
8. Conclusion: Tenured professors are generally older with slightly higher evaluations; histograms best show age distribution.

Github Repository link:

[https://github.com/pineapplesdontbelongonpizza/CSU1658\\_practical1\\_Testing\\_Pandas\\_and\\_Numpy.git](https://github.com/pineapplesdontbelongonpizza/CSU1658_practical1_Testing_Pandas_and_Numpy.git)