

The background of the slide is a dark blue field filled with a complex network of glowing lines and dots. The lines, in shades of red and blue, form a dense web of connections, with some lines curving and looping. Small dots of the same colors are scattered throughout, particularly concentrated along the lines, suggesting a large-scale data network or a complex system being visualized.

# Data Visualization

Communicating With Data  
Language of Eye

## About Me

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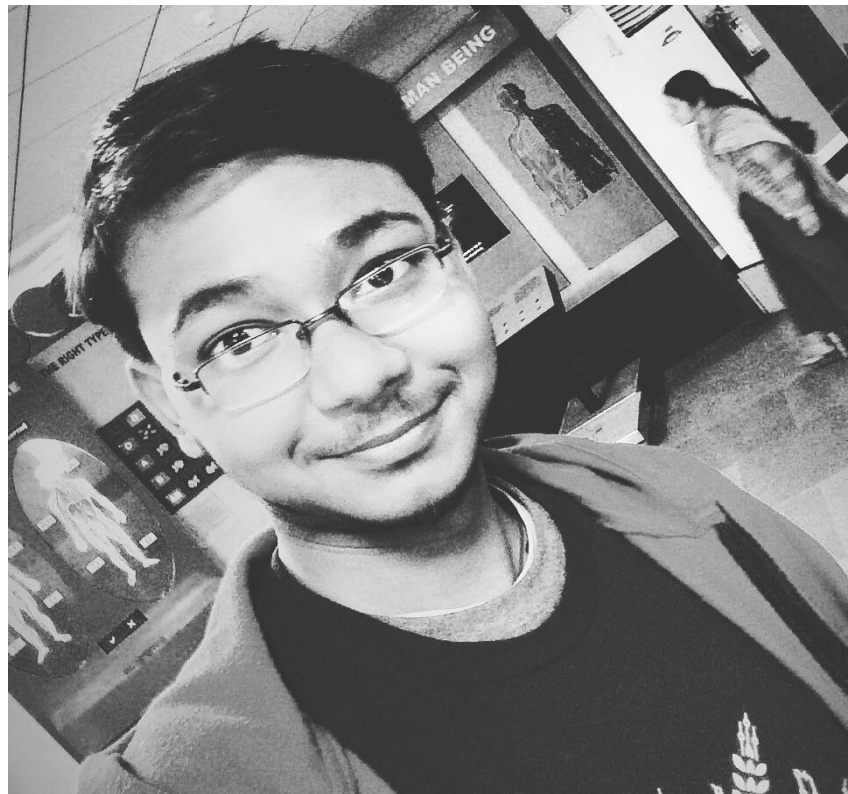
[@praneetnigam](https://twitter.com/praneetnigam)



[Praneet460](https://github.com/Praneet460)



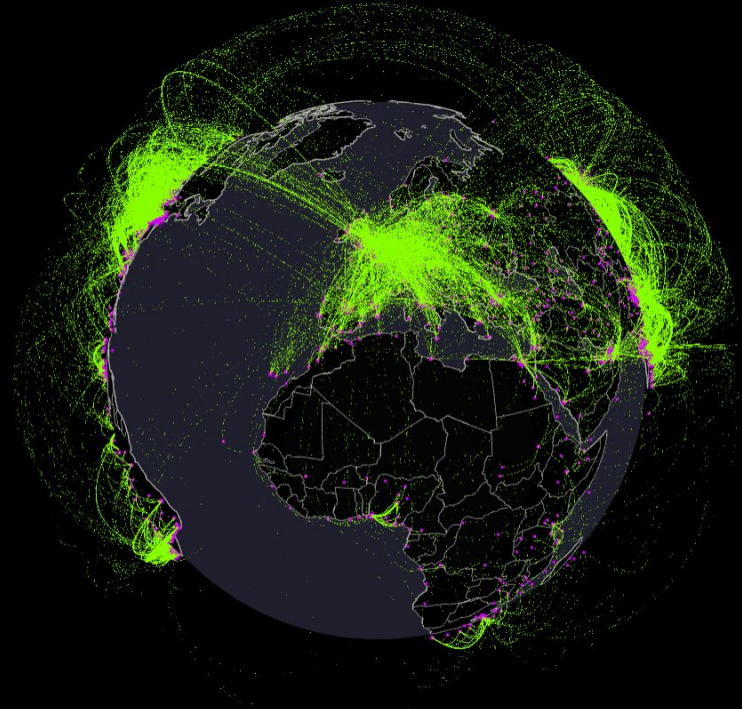
[praneetnigam](https://www.instagram.com/praneetnigam)



**Visualization gives you answer to  
questions you didn't know you had.**

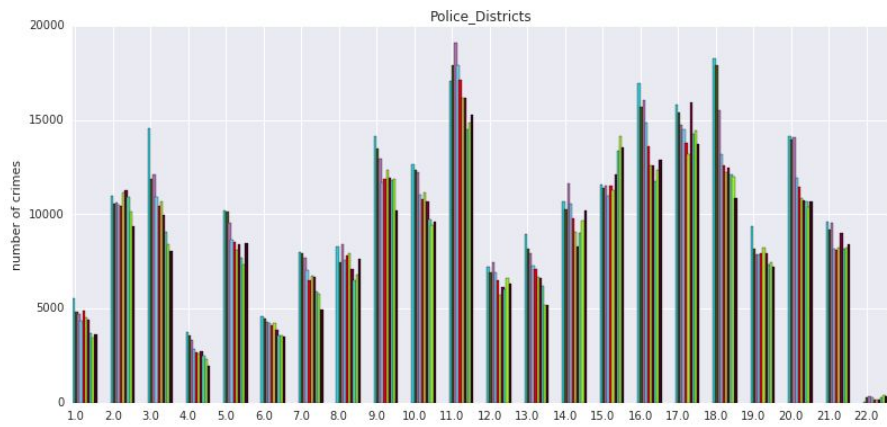
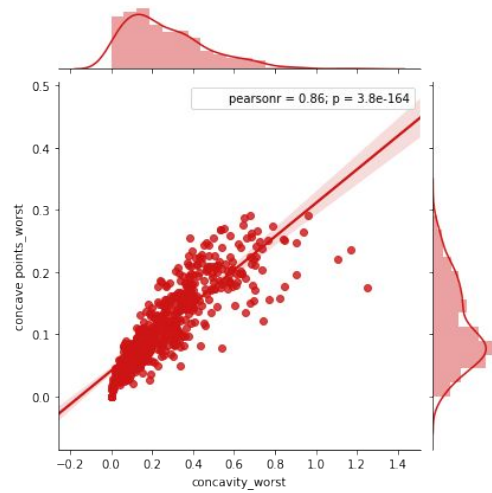
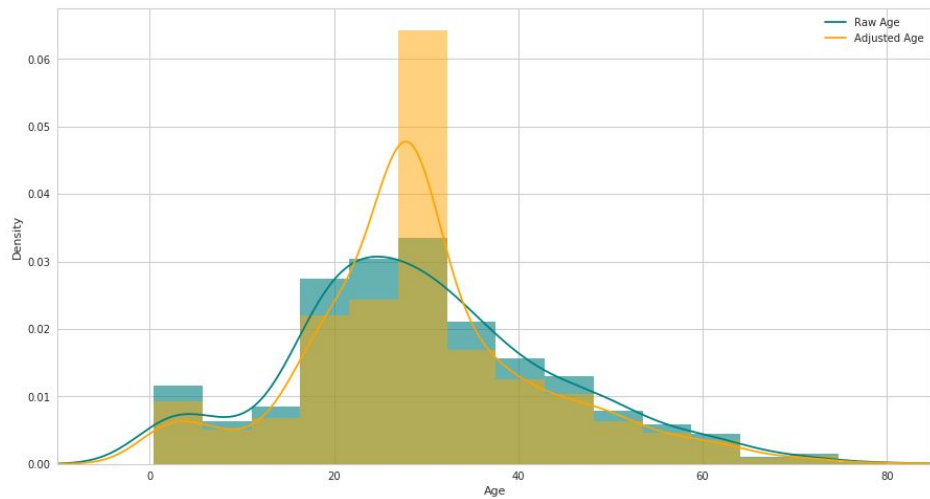
**- Ben Schneiderman**

When most people  
think about  
DataViz, they think  
about this.



One Year of Air Traffic / One Million Particles





# Data Visualization

- ❑ The visual representation of data.
- ❑ Primary goal is to communicate information clearly and efficiently to users via the statistical graphics, plots, information graphics, tables, and charts selected.
- ❑ Visualizing the data help you find the hidden patterns inside the data.
- ❑ The purpose of visualization is insight, not pictures.
- ❑ Show data variation, not design variation.

# Steps to make your visualization successful

## Purpose

Why this visualization?

## Content

What to visualize?

## Structure

How to visualize it?

## Formatting

Everything else like text-font, axis

# Basics of DataViz Starts With

- ★ Scatter plot
- ★ Line plot
- ★ Bar plot
- ★ Histogram
- ★ Box plot
- ★ Kernel Density Estimation plot i.e. KDE
- ★ Violin plot

Know more about these plots with examples - [bit.ly/pydelhi\\_eda](https://bit.ly/pydelhi_eda)