CAP793:ADVANCE DATA VISUALIZATION-LABORATORY

Course Outcomes: Through this course students should be able to

CO1:: understand and create data visualization

CO2 :: understand the different visualization techniques

CO3:: discuss the purpose of visualization and visualization design

CO4:: analyze better tools for data visualization systems

List of Practicals / Experiments:

Visualization tools

• Introduction to data visualization tools: Excel, Python, R, Tableau

Basic plotting techniques

• Learning basic plots such as gnuplot, charts, line, dots

Visualization data methods

• Learn about Time series, scatter plots, networks, and graphs

Visualization data process

• Learn about tools for acquiring data from the internet

Advance web techniques

• Learn about infogram, power BI and google chart

Python and R data visualization

• Learn about python and R visualization libraries

Tableau visualization

To demonstrate the Tableau visualization graphical representations

Security data visualization

• To understand the various security data visualization techniques

Text Books:

- 1. DATA VISUALIZATION: A HANDBOOK FOR DATA DRIVEN DESIGN by ANDY KIRK, SAGE PUBLICATIONS
- 2. PRACTICAL DATA SCIENCE COOKBOOK: DATA PRE-PROCESSING, ANALYSIS AND VISUALIZATION USING R AND PYTHON by PRABHANJAN TATTAR, TONY OJEDA, SEAN PATRICK MURPHY, BENJAMIN BENGFORT, ABHIJIT DASGUPTA, PACKT PUBLISHING

References:

1. LEARN PYTHON VISUALLY: CREATIVE CODING WITH PROCESSING.PY by TRISTAN BUNN, NO STARCH PRESS $\,$

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