Research Proposal Presentation Outline

Project Title:

 Design and implement a Data Loss Preventions framework for a financial institution that protects customer financial information.

Significance/Contribution to the discipline/Research Problem:

 This research would focus on the development of framework to implement Data loss prevention (DLP) within the financial institution's network, while the cloud-based components will be used to store and analysis data from endpoints, such as laptops and smartphones.

Research Question:

 How can a tailored Data Loss Prevention (DLP) solution effectively protect customer financial information in financial institutions

• Aims and Objectives:

 To design and implement an effective Data Loss Prevention (DLP) solution tailored for financial institutions to ensure the security of customer financial information.

Objectives:

- o Investigate current DLP strategies employed by financial institutions.
- Identify vulnerabilities and gaps in current DLP systems.
- o Propose a model that covers data at rest, data in transit, and data in use.
- Develop and implement the proposed DLP model in a simulated financial environment.
- Assess the effectiveness of the implemented DLP solution through controlled testing.

• Key literature related to the project:

Background of DLP Systems:

- o Understanding Data Loss Prevention
- o Data Security in the Financial Sector

Financial Data Vulnerabilities:

- Security Gaps in Modern Banking
- o Financial Data Breaches:

Existing DLP Technologies:

- Modern DLP Solutions: A Comparative Analysis
- Financial Institution Security Measures

Methodology/Development strategy/Research Design:

Qualitative Research:

- Review current market DLP solution and implementation process
- Analyse reported data breaches specific to financial information leaks.

Quantitative Research:

Evaluate the effectiveness by measuring parameters such as detection rate, false positives, and response time.

• Ethical considerations and risk assessment:

- o Ensure all personal and sensitive data from interviews are anonymized.
- o Obtain approval before testing or implementation

• Timeline of proposed activities:

o Timeline for the project