

# **Financial Report Summarization Using Deep Learning-Based NLP Models**

## **Abstract:**

Financial reports contain **complex and dense information**, requiring intelligent summarization for **investors, financial analysts, and decision-makers**. This project develops an **AI-based financial summarization system** using **deep learning and NLP** to **automate financial statement analysis**.

## **Methodology:**

- **Data Preprocessing:** Handling **numerical data, financial terminology, and unstructured reports**.
- **Summarization Models:** Leveraging **FinBERT, Longformer, and Pointer-Generator Networks** for summarization.
- **Performance Metrics:** Evaluating against **human summaries, financial accuracy, and readability**.

## **Outcome:**

The system provides **precise, informative, and accessible summaries**, enabling **faster decision-making in stock market analysis, business intelligence, and financial planning**.