## “NEURAL NETWORK – BASED PREDICTIVE MODELLING FOR STOCK MARKET FORECASTING AND DIABETES PATIENT ANALYSIS: A COMPARATIVE STUDY”

*Research Intern project report submitted*

*by the student*

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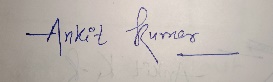
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**Declaration**

I hereby declare that this submission is my own work and that, to the best of our knowledge and belief, it contains no material previously published or written by another person nor material that, to a substantial extent, has been accepted for the award of any other degree or diploma of the university or other institute of higher learning, except where due acknowledgment has been made in the text.

**Date**: 20th July, 2024 **Student Name, Roll No, Signature**

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**Summary of the Project**

"Neural Network-based Predictive Modeling for Stock Market Forecasting and Diabetes Patient Analysis: A Comparative Study"

**Dataset Considered:**

Finance department data (e.g., TCS from Yahoo Finance): handling large real-world data

* Data Type: Continuous, Time-series
* Number of Variants: Multivariate
* Classification: Binary + Regression (Not Multiclass)

**Research: Field of Interest**

Machine Learning & Neural Networks: (ANN, CNN, RNN), LSTM, Transformer and KNN

**Expertise:**

Artificial Neural Networks based: SLP (Uni-variant) & MLP (Multi-variant) for Optimal Predictive Model Development

**Conclusion:**

This research project demonstrates the potential of neural network-based models to provide accurate and actionable predictions in the fields of finance and healthcare. The comparative study highlights the strengths and limitations of various algorithms, offering insights into their practical applications and paving the way for future research and development.

**References**