Project Report

Deepfakes Detection Techniques Using Deep Learning

Group Name:

MSV

Team Members:

1. Vasunitha Somashekar (Z23755795)
2. Sagarika Patha (Z23742437)
3. Mahitha Puppala (Z23782034)

Title and Citation of Selected Research Paper:

o **Paper Title**: "Deepfakes Detection Techniques Using Deep Learning: A Survey"
o **Authors**: Vasunitha Somashekar, Sagarika Patha, Mahitha Puppala
o **Citation**: The selected research paper has been cited 61 times.

TASK DESCRIPTION:

Data Collection:

- Collected dataset from Kaggle.
- Pre-processed the dataset to ensure uniformity.

Training the model:

- 85% of data is considered for training.
- 15% considered for validation.

Hyper Parameter Tuning:

- Utilised keras tuner with random search to explore and optimise the layers for better performance.

Testing:

- The model is tested after training.

Team Contribution inWork:

CONTRIBUTION	NAME
Selection of research paper	Vasunitha Somashekar
Data Collection	Sagarika Patha
Data Splitting	Sagarika Patha
Training the model	Vasunitha Somashekar
Evaluating the model	Sagarika Patha
Hyper Parameter Tuning	Vasunitha Somashekar
Testing	Mahitha Puppala
Final Report	Mahitha Puppala