



Weekly Progress Report - 2

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Project Title	Combating Digital Misinformation: Deepfake Detection Using Deep Neural Networks
Name of the Supervisor (Mentor) at PDEU	Dr. Samir Patel
Week Number	Week 2

Progress made in Week:

This week, we continued building upon the foundation by focusing on dataset preparation and management for the deepfake detection project:

- **Expanded Dataset Variety:** Added **Celeb-DF v2 dataset** alongside FaceForensics++ to ensure higher diversity and robustness in training data.
- **Dataset Organization:** Combined all dataset subfolders into a **CSV file** containing the **video path** and **label (real/fake)** for structured usage during model training.
- **Version Control for Dataset:**
 - Initialized **Git** and integrated **DVC (Data Version Control)** to efficiently handle large datasets (~26 GB).
 - Configured **Google Drive as a DVC remote storage**, enabling seamless access and collaboration.
- **Cloud Setup for Training:** Set up Google Colab with GPU integration for dataset processing and future model training.
- **Frame Extraction:** Wrote and executed a **Python script** to extract **30 frames per video** from the datasets, creating a standardized input format for training deep learning models.

Hetanshi Bhatt	Kunal Solanki	Samir Patel
		
Name and Signature of Student 1	Name and Signature of Student 2	Name and Signature of Supervisor (Mentor)