**TITLE: DEEPFAKE DETECTION MODEL**

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| Research Area: | |
| Nature of Project (Make it Bold and Red color) **:- Deepfake Detection Model** | Application :- Fake image detection  Business Model  Product  Research  Review  Technology/ Upgradation |
| Proposed Topic/ Idea Name | Deepfake detection |
| Problem Statement/ Description of the Project | To increase the accuracy of deepfake detection |
| Any Existing technology related to Problem Statement | CNN and related usages |
| Mention the research gap that the proposed Project/idea/research work intends to fill | |
| What Novelty/Newness/upgradation do you see in the proposed Project/idea/research work? | |
| Is it feasible to carry out the proposed work with in-house facilities? If yes, please mention how the project/research work shall be carried out.  No | |
| What are the expected research/project outcomes from the student proposal?   |  |  | | --- | --- | | Outcome 1: | **Accuracy Metrics:** Report the overall accuracy of your deepfake detection model on a test dataset, including metrics such as precision, recall, F1 score, and area under the ROC curve (AUC). | | Outcome 2: | **Effectiveness Against State-of-the-Art Methods:** Compare the performance of your deepfake detection model against existing state-of-the-art methods or benchmarks to demonstrate its efficacy and potential improvements. | | Outcome 3 | **Robustness to Adversarial Attacks:** Assess the robustness of your model against adversarial attacks specifically designed to evade deepfake detection, such as perturbations or adversarial examples. | | |