**Deep Learning-Based Image Classification for Mango Variety Identification**

* **Registration Number**: 22000340155
* **Name**: Mallula Charan Vijanya
* **Email ID**: [2200040155@kluniversity.in](mailto:2200040155@kluniversity.in)
* **Contact Number**: 8897691837

**Dataset Information:**

* **Dataset Link**: <https://www.kaggle.com/datasets/saurabhshahane/mango-varieties-classification/data>It comprises high-resolution images of different mango varieties, specifically targeting Alphonso, Badami, Kesar, and Langra. The dataset is organized into subdirectories named after each mango variety, providing a clear and structured labeling format suitable for supervised learning approaches.

**Models Applied on the Dataset :**  
The following models were implemented and evaluated on the SVHN dataset as part of the coursework:

* Custom Convolutional Neural Network (CNN)
* Recurrent Neural Network (RNN)
* Long Short-Term Memory Network (LSTM)

**Results:**







