Project Title: Mushroom Toxicity Classifier

Course: IST-707 – Applied Machine Learning

Files in this Folder:

- **final1AML.ipynb**
  This Jupyter Notebook contains the complete end-to-end project for classifying mushroom toxicity using tabular and image data. It includes:
    - Data preprocessing
    - Model building using traditional ML (SGDClassifier, Logistic Regression, SVC)
    - CNN implementation using Keras and TensorFlow
    - Evaluation metrics and visualizations

Software/Tools Required to View:

- **Jupyter Notebook or Google Colab**
- Python 3.x environment
- Required libraries: pandas, scikit-learn, matplotlib, seaborn, tensorflow, keras

To run locally:
Install the necessary packages using pip:

bash
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pip install pandas scikit-learn matplotlib seaborn tensorflow keras

Or open in Google Colab:

Upload the .ipynb file and run the code in a browser without needing to install anything locally.