**🌌 Galaxy Image Processing Model**

Welcome to the **Galaxy Image Processing Model** repository! This project uses machine learning to analyze galaxy images. Follow the steps below to set up and run it smoothly. 🚀

**⚡ Prerequisites**

Ensure you have the following installed before getting started:

* Google Colab (online)
* Jupyter Notebook
* Flutter SDK
* Python (for running Jupyter Notebooks)

**🛠️ Step-by-Step Guide**

**📥 Step 1: Download the Repository**

1. Clone this repository using:
2. git clone https://github.com/akhan110/galaxyclassification.git
3. Navigate to the cloned directory:
4. cd galaxyclassification
5. Ensure all files are downloaded properly.

**🚀 Step 2: Run Galaxy\_classification.ipynb File on Google Colab**

1. Open [Google Colab](https://colab.research.google.com/).
2. Upload the .ipynb file from the repository.
3. Run all cells in the notebook.
4. After execution, you will receive a **Public URL** (usually from ngrok or similar services).

**🔗 Step 3: Use the Public URL in test\_api.ipynb**

1. Open test\_api.ipynb in Jupyter Notebook or Google Colab.
2. Copy the **Public URL** from Step 2.
3. Paste it into the API endpoint variable inside test\_api.ipynb.
4. Provide the path to the galaxy image you want to test.
5. Run all cells and verify the output.

**📱 Step 4: Set Up and Run the Flutter App**

1. Download the Flutter app from this repository.
2. Open the project in an IDE (VS Code or Android Studio recommended).
3. Update the API endpoint in the app code with the **Public URL** from Step 2.
4. Run the Flutter app using:
5. flutter run

**🖼️ Step 5: Upload Galaxy Image and Test**

1. Open the Flutter app.
2. Upload an image of a galaxy.
3. The model will analyze the image and display results.

**🎯 Conclusion**

By following these steps, you should have everything running perfectly! If you run into any issues, check out the repository’s **Issues** section or reach out for support.  
  
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✨ Happy Coding & Keep Exploring the Cosmos! 🌠