**Shardul : Retinal, MRI, and Skin Lesion Images**

📌 **Datasets Assigned:**

* **STARE (Retinal Images) – Kaggle**
* **BraTS (MRI Brain Tumors) – Mendeley Data**
* **ISIC (Skin Lesion Images) – ISIC Archive**

📌 **Tasks:**  
✅ **Dataset Collection**:

* Download datasets and check formats (**PNG, JPEG, .nii** for MRI)

✅ **Preprocessing**:

* **Standardize image size & resolution** for uniformity
* **Normalize intensity & contrast enhancement**
* **Convert MRI (.nii) to PNG/JPEG** for GAN compatibility
* **Apply data augmentation** (rotation, flipping, zooming)
* **Generate LR images** by downsampling HR images

**Devika : X-ray and Ultrasound Images**

📌 **Datasets Assigned:**

* **Chest X-ray (Pneumonia Detection) – Kaggle**
* **CAMUS (Echocardiography – Ultrasound) – Open Source**

📌 **Tasks:**  
✅ **Dataset Collection**:

* Download datasets and verify consistency in formats

✅ **Preprocessing**:

* **Standardize image size & resolution**
* **Normalize intensity & contrast adjustment**
* **Ensure compatibility with GAN model** (convert non-PNG/JPEG formats if needed)
* **Apply data augmentation** (rotation, flipping, zooming)
* **Generate LR images** from HR data for training