Hello Professor Kevin and Professor Jojo,  
  
Here is my current project idea. I have already started working on it. The approach to my project may be slightly adjusted as I proceed. I am currently working on the external resources that Professor Jojo sent me on Image Classification.  
  
**Project Idea**: Pneumonia Detection Using Convolutional Neural Networks (CNNs)  
  
**Objective:**The goal of this project is to develop an image classification model to detect pneumonia from X-ray images. By using Convolutional Neural Networks (CNNs), I want to create a model that can accurately classify X-ray images as either indicating the presence or absence of pneumonia.  
  
**Approach:**  
I will use the Chest X-Ray Images (Pneumonia Detection) dataset from Kaggle for training and evaluating the model. The project will involve the following steps:  
1. Data Preprocessing: Cleaning and preparing the dataset for training, including normalization and augmentation.  
2. Model Building: Designing and implementing a CNN architecture for image classification tasks.  
3. Training: Training the model using the preprocessed dataset and fine-tuning hyperparameters to optimize performance.  
4. Evaluation: The model's accuracy and performance will be assessed using various metrics such as confusion matrix, precision, recall, and F1 score.  
5. Testing: Validating the model on a separate test set.

**Resources:**  
Kaggle Chest X-Ray Images (Pneumonia Detection) dataset(This is already split up into train, test, and validation sets.)  
<https://www.kaggle.com/datasets/paultimothymooney/chest-xray-pneumonia>  
  
Thanking you,  
Jayithi Gavva