Pneumonia Detection

Welcome to the Pneumonia Detection project! This streamlit application is designed for pneumonia detection using X-ray images. Here's a quick overview of the key files:

Project Overview

Objective: Detect pneumonia in X-ray images and classify them into three categories: Normal, Virus, Bacterial Pneumonia.

Files:

- `Data_ingest.py`: Python script for data ingestion.
- `Data_process.py`: Python script for data processing.
- `Prediction.py`: Python script for making predictions.
- `app.py`: Main Streamlit application file.
- `pipeline.py`: Python script for the data processing pipeline.
- `requirements.txt`: List of project dependencies.
- `images/`: Folder containing X-ray images.
- `static/`: Folder for static assets in the Streamlit app.

Getting Started

1. Clone the repository:

`bash git clone https://github.com/vijaytakbhate2002/pneumonia-detection.git`

1. Install dependencies:

`bash pip install -r requirements.txt`

1. Run the Streamlit application:

`bash streamlit run app.py`

1. Upload X-ray images to get predictions for Normal, Virus, and Bacterial Pneumonia.

Contributing

We welcome contributions! If you have suggestions or improvements, feel free to open an issue or submit a pull request.

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