Helmet Detection

Project Description

This project focuses on detecting whether a rider is wearing a helmet or not. The system uses machine learning techniques to analyze images and determine the presence of a helmet on the rider's head, promoting safety and adherence to traffic regulations.

Installation

To set up and run this project locally, follow these steps:

Clone the repository:
bash
Copy code
git clone https://github.com/your-username/helmet-detection.git
cd helmet-detection
Install required packages: Ensure you have Python installed. Install the required packages using pip:
bash
Copy code
pip install -r requirements.txt
Run the Jupyter Notebook: Open the provided Jupyter Notebook to explore the code and run the model.
bash
Copy code
jupyter notebook helemet_detection.ipynb
Usage

Once you have set up the environment, you can use the provided Jupyter Notebook to:

Load and preprocess the dataset.
Train the helmet detection model.
Test the model on sample images to see if the rider is wearing a helmet or not.
License

Contributing

Contributions are welcome! Please fork the repository and create a pull request with your changes. For major changes, please open an issue first to discuss what you would like to change.

Contact

For any questions or issues, feel free to reach out via email at - shreejitcs@gmail.com