

Traffic Volume Estimation - Project Documentation

README.md

Traffic Volume Estimation Web App

This is a template for a traffic volume estimation web application using a machine learning model and web frontend.

Project Structure

- `Data/` - Stores raw datasets.
- `Training/` - Model training scripts and trained models.
- `forms/` - Python files for handling user input (e.g., Flask WTForms).
- `static/` - CSS, JS, and image files.
- `templates/` - HTML templates for frontend.
- `app.py` - Main Flask application script.

How to Run

```
```bash
pip install -r requirements.txt
python app.py
```
```

Dependencies

- Flask
- Pandas
- scikit-learn

app.py

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```
from flask import Flask, render_template, request

app = Flask(__name__)

@app.route('/', methods=['GET', 'POST'])
def home():
    if request.method == 'POST':
        # handle input and run prediction
        return render_template('result.html', result="Prediction here")
    return render_template('index.html')

if __name__ == '__main__':
    app.run(debug=True)
```

requirements.txt

```
flask
scikit-learn
pandas
```

templates/index.html

```
<h1>Enter Traffic Data</h1><form method='post'><input name='data'><input type='submit'></form>
```

templates/result.html

```
<h1>Prediction Result: {{ result }}</h1>
```