

## DIRECTORY STRUCTURE

```
swayam_project/ (PyCharm Root - Run 'python app.py' here)
├── app.py                         :Flask Web App (localhost:5000)
├── eda_viz.py                      :Exploratory Data Analysis Visualized
├── main.py                          :Not Used
├── DOCUMENTATION/
│   └── IMAGES
│       └── ALL REPORTS            :Contains Detailed Report
│           └── DIRECTORY STRUCTURE :This Document
├── DATASET/
│   └── zomato.csv                  :Raw (51,717 rows × 17 cols)
│   └── zomato_clean.csv           :Cleaned (12,787 rows × 12 cols)
├── PREPROCESSING/
│   └── preprocessing.py          :EDA + Data Cleaning (Phase 2+3)
└── src/
    ├── __init__.py
    └── content_based.py          :TF-IDF Model + evaluate_model() (Phase
4+5)
├── model/
│   └── tfidf_model.pkl           :Trained Model (Flask loads)
└── MODEL OPTIMIZATION/
    └── Hyperparameter_Tuning.py    :Model Optimization
    └── tuning_results.csv
└── templates/
    ├── home.html                 :Search Form (Name/Cuisine/Location)
    └── home2.html                 :Results + Viz (Optional)
└── .venv/                          :Python Virtual Environment
```