

Production Code Introduction

What do we mean by "Production Code"?



- Let's dig into the terminology to avoid confusion...



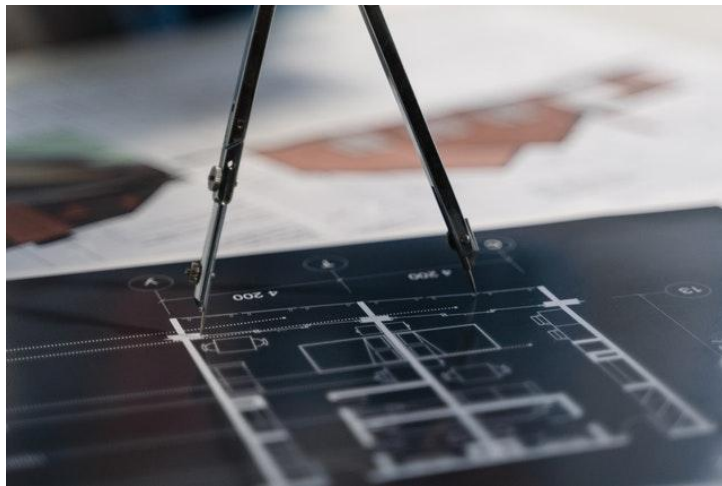
Purpose

Production code is designed to be deployed to end users.



Production Code Considerations

- Testability & Maintainability



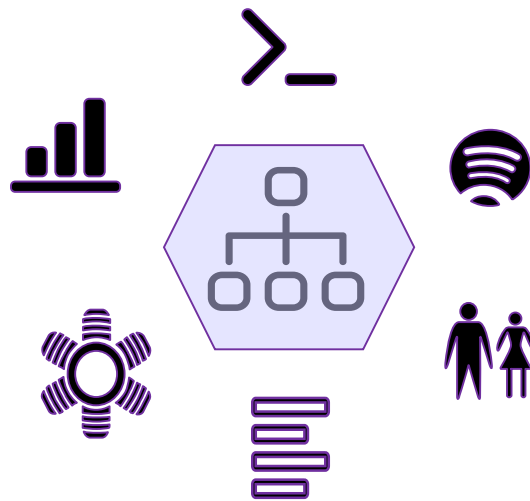
Production Code Considerations

- Scalability & Performance



Production Code Considerations

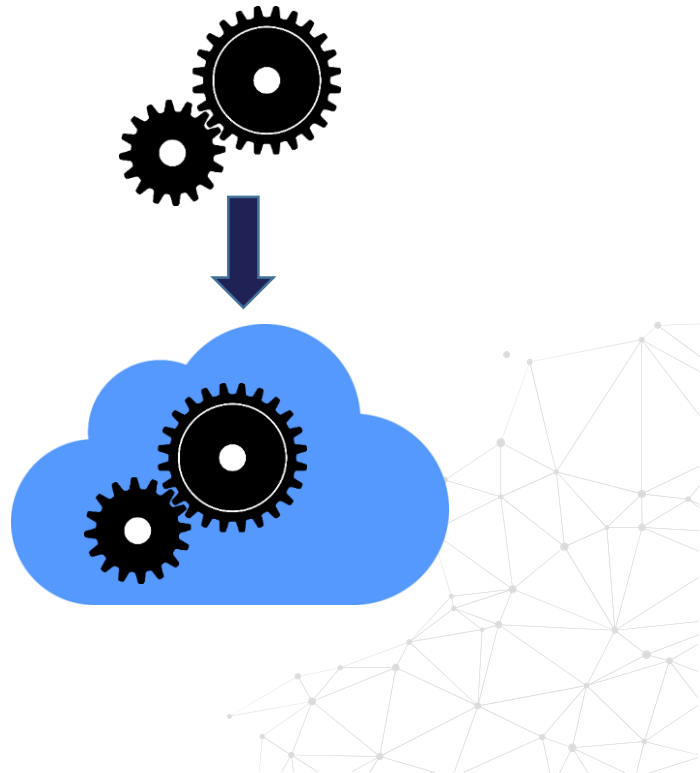
- Reproducibility



Python Packages

A **module** is a file which contains various Python functions and global variables. It is just a file with a `.py` extension which has python executable code.

A **package** is a collection of modules.



Package Structure

```
parent/  
├── regression_model/  
│   ├── config/  
│   ├── datasets/  
│   ├── processing/  
│   ├── trained_models/  
│   ├── config.yml  
│   ├── pipeline.py  
│   ├── predict.py  
│   ├── train_pipeline.py  
│   └── VERSION  
├── requirements/  
│   ├── requirements.txt  
│   └── test_requirements.txt  
├── setup.py  
├── MANIFEST.in  
├── pyproject.toml  
├── tox.ini  
└── tests/
```

