Code With Mohsin

🔧 uv Python Package Kya Hai?

uv ek next-generation Python package manager hai jo pip, pip-tools, aur virtualenv ka alternative hai – lekin bahut zyada fast aur efficient hai.

✓ Features:

- 1. High performance: Bahut tezi se packages install karta hai (pip se bhi faster).
- 2. Dependency resolution: Complex dependencies ko efficiently handle karta hai.
- 3. No Python needed for installation: Iska binary version hota hai jo directly run hota hai.
- 4. Safe & reliable: Deterministic installs (har system pe same results).

uv pip install <package-name>

virtual environment

uv venv <env-folder-name>

FastAPI Kya Hai?

FastAPI ek modern, high-performance web framework hai Python ke liye jo APIs banane ke liye use hota hai

"FastAPI: Fast (high-performance), web framework for building APIs with Python 3.7+ based on standard Python type hints."

Key Features:

Feature Detail

6 Fast Bahut hi high performance (almost like

Node.js and Go).

▼ Type hints TypeScript jaisa feel deta hai Python

support mein.

Auto Swagger UI aur Redoc docs auto-ban documentation jaate hain.

Validation

Request/response data automatic validate hoti hai.

Asynchronous support

async/await ke saath kaam karta hai.

Security features pehle se hi built-in hain.

pip install fastapi
pip install "uvicorn[standard]"

main.py
from fastapi import FastAPI

app = FastAPI()

@app.get("/")
def read_root():
 return {"message": "Welcome to FastAPI!"}

@app.get("/hello/{name}")
def read_item(name: str):
 return {"Hello": name}



- Backend for web apps
- Mobile app APIs
- Microservices
- Al/ML model deployment