

Anushka Purohit

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SUMMARY

Software Engineer with approx. 3 years of experience building scalable, cloud-native APIs and microservices using Python. Proficient in Flask, and Django REST Framework with hands-on expertise in asynchronous programming, testing, and containerized deployments. Adept at designing resilient backend systems, optimizing database performance, and automating CI/CD pipelines across Kubernetes environments. Open to learning and adapting to new technologies to deliver innovative and efficient solutions.

EXPERIENCE

Software Engineer, HCLTech

August 2022 – July 2025 | Noida

Tools/Tech: Python, Linux, Flask, Django, SQL, NoSQL, PostgreSQL, Docker, Kubernetes, Git, Jira, Confluence, CI/CD, Event-driven orchestration

- Integrated Python-based Geo-Load Prediction & Load Prediction application on VMware 5G platform, reducing cell congestion by **30%** through real-time event-driven analytics.
- Designed and maintained ETL-style data pipelines using **Pandas & NumPy**, enabling seamless ingestion into **InfluxDB & PostgreSQL** for downstream analytics and improving data analytics readiness by **3x times**.
- Built RESTful APIs and backend systems using **Django & Flask**, following microservices architecture and OOP principles.
- Deployed containerized apps via **Docker & Kubernetes** and monitored operational stability using internal CI/CD pipeline (GitHub Actions, GitLab CI/CD), with environment setup and dependency management handled via **virtualenv** and **pip**.
- Wrote unit and integration tests with **pytest** and integrated them into CI pipelines for automated quality gates, improving regression detection before releases.
- Led a 5-member agile team in designing a **car rental system** (Flask + MySQL + Bootstrap), improving booking accuracy by **40%** and reducing latency through effective DB schema design.
- **Received the ERS Championship Award (Mar 2024)** for outstanding contributions at HCLTech for developing a vital software solution that accelerated project timelines by 15% and markedly improved system efficiency.

Data Science Intern, Widhya

January 2021 – April 2021 | Remote

Tools/tech: Python, Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn, Linear Regression, Jupyter Notebook

- Conducted Exploratory Data Analysis on **30,000+** data entries using Pandas and NumPy to identify trends, correlations, and outliers, improving market behavior analysis by **30%**.
- Built interactive visualizations using Matplotlib and Seaborn to highlight market trends, accelerating stakeholder decision-making by **40%**.
- Developed and optimized linear regression models in Python to predict stock and Bitcoin prices, achieving a **25%** increase in forecasting accuracy.

PROJECTS

Netflix Data Analysis, Python, Pandas, NumPy, Matplotlib

December 2023 – March 2024

- Conducted exploratory data analysis on a 9,000+ entry Netflix dataset using Pandas and NumPy to uncover user behavior and content consumption patterns.
- Identified that **80% of Netflix content is movies** and **70% of viewers are adults**, using data storytelling and visualizations to inform **data-driven content strategy**.
- Collaborated with cross-functional stakeholders (analysts, product) to **translate insights into strategic planning**, enhancing decision-making accuracy by 20%.

Car Rental System, Django, MySQL, REST APIs, HTML/CSS

September 2022 – November 2022

- Developed a full-stack Car Rental System with Django, implementing RESTful APIs for authentication, booking, and search functionality.
- Designed optimized MySQL database schemas and integrated Django ORM to **reduce response time by 30%** and improve performance.
- Led a team using Agile practices to deliver a modular, scalable backend with secure **JWT-based authentication** and tested endpoints via Postman.

SKILLS

Language & Tools — Python, Flask, Django, REST APIs, OOP, DSA, Shell Scripting, HTML, CSS

Data Technologies — Pandas, NumPy, Matplotlib, Seaborn, SQL, PostgreSQL

DevOps & Platforms — Docker, Docker Compose, Kubernetes, AWS, Git, GitHub

Tools, Testing & Environment — Jupyter Notebook, VS Code, Linux, virtualenv, pip, Pytest

Currently Exploring — Fast APIs, Kafka, NoSQL Databases (MongoDB), CI/CD Pipeline

EDUCATION

Bachelors of Technology (ECE),

August 2018 – June 2022 | Pauni

Govind Ballabh Pant Institute of Engineering & Technology

Graduated with Honors (75.2%)

Relevant Coursework: Programming in C, Python, Object-Oriented Programming (OOP), Data Structures, Software Engineering, Database Management Systems (DBMS).