Lokesh Chauhan

Python Developer

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in Lokesh Chauhan   ⦾ lokeshchauhan2801

Profile

Experienced Python developer with 1+ years of full-stack experience. Proficient in Python (Django, Flask, FastAPI), MySQL, PostgreSQL, SQLAlchemy. Specialized in building high-performance REST APIs (over 100+ APIs developed with 30% performance improvement), designing efficient database models. Proficient in Python with expertise in data wrangling and optimization techniques. Skilled in using Pandas for cleaning, transforming, and analyzing large datasets to derive meaningful insights.

Skills

Programming language
- Python
- JavaScript
- c++

Version Control
- Git

Containerization
- Docker

Web Frameworks
- Flask
- FastAPI
- Django

Concurrency Techniques
- Multithreading
- Multiprocessing
- Celery
- Asyncio

Database Management
- Mysql
- PostgreSQL
- ElasticSearch
- Redis
- SQLAlchemy

AWS Service
- S3 Bucket

Front-end Frameworks and Libraries
- Vue.js
- ReactJs

ETL Tools
- Pandas
- Numpy

Professional Experience

NMG Technologies   2024 – present
Python Developer   Gurugram, Indian

Performance Optimization:
- **Engineered** high-performance Python web applications using Flask-RESTful and FastAPI, reducing **API response time by 25%** and handling **10,000+ daily requests**.
- **Revamped** REST APIs, enhancing **system scalability by 40%** and cutting **server costs by 20%**.

Efficient Database Transactions:
- **Implemented** Async SQLAlchemy with FastAPI, **accelerating** database query execution by **30%** while managing **1M+ records**.
- **Streamlined** data handling, enabling **5,000+ concurrent API calls** with **zero performance issues**.

Enhanced Search Performance:
- **Integrated** Elasticsearch, **cutting query response time by 70%** (from **1.5s to 0.45s**) and **boosting user engagement by 30%**.

Cloud Integration with AWS:
- **Orchestrated** Amazon S3 storage for **500GB+ of data**, **optimizing storage costs by 15%** through lifecycle policies.

Key Achievements & Performance Optimization

Google Ads Automation Service   2024 – 2025
- **Developed** a system to **automatically download and convert** Google Ads into **market-ready banners** using Python.
- **Eliminated** manual intervention, **reducing processing time by 50%** and enabling real-time ad retrieval.
- **Bypassed** Google bot detection by implementing **custom headers and request handling**, ensuring uninterrupted data extraction.
- **Enhanced** marketing efficiency by delivering **ready-to-use, high-quality banner ads**, increasing **ad deployment speed by 35%**.

Automated Data Visualization   2024 – 2024
- **Designed** a Python-based service to **process CSV files** and **generate visual reports** (pie & bar charts) using Pandas.
- **Implemented** adaptive filtering mechanisms, allowing users to interactively refine data insights in real time.
- **Minimized** manual workload by **40%**, **accelerating decision-making** with **quick, clear insights from large datasets**.
- **Optimized** data processing pipelines, reducing file processing time from **10 minutes to under 2 minutes**.
- **Exported** reports in **multiple formats (PDF, Excel, PNG)**, ensuring seamless sharing across teams.

Courses

Python Full-Stack   2023 – 2024
Ducat-India   Delhi, India

Gained expertise in full-stack development with a focus on **Python**. Key areas include:
- **Python**: Mastered core programming, OOP, and efficient coding practices.
- **Django & Flask**: Built web applications and APIs using Django and Flask frameworks.
- **Data Science**: Utilized **NumPy** for numerical computations and **Pandas** for data manipulation.
- **React.js**: Developed interactive UIs with React, focusing on components, state management, and hooks.
- **MySQL**: Proficient in database design and SQL queries.

Education

Master of Computer Science   2023 – present
Chandigarh University   Punjab, India

Bachelor of arts   2020 – 2023
Uttarakhand open university   Uttarakhand, India

Diploma in Electronics and Communication Engineering (ECE)   2019 – 2022
Govt. Polytechnic , Dwarahat   Uttarakhand, India