

# MONU MAURYA

## Python Backend Developer | AI Integration Specialist

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### PROFESSIONAL SUMMARY

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Results-driven Python Backend Developer with 3+ years of hands-on experience (freelance & academic) in building scalable applications and high-performance RESTful APIs. Specialized in AI/ML integration (facial recognition, NLP), database optimization, and end-to-end system design. Proven ability to reduce latency by 40%+ (e.g., weather app API calls) and deliver 100% client-satisfaction projects on deadline. Passionate about clean architecture, agile teamwork, and modular code.

### WORK EXPERIENCE

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<b>Python Backend Developer,</b> <i>Python Backend Developer - Freelance Projects</i>	01/2025 – Present Remote
<ul style="list-style-type: none"><li>• Architected backend logic for + production-grade Python apps, including an AI virtual assistant (10+ voice commands) and real-time facial recognition system (50+ users), improving efficiency by 30% via optimized algorithms.</li><li>• Designed RESTful APIs (Flask) handling 500+ RPM with &lt;200ms latency, integrated with MySQL/SQLite databases for zero-downtime CRUD operations.</li><li>• Boosted user engagement by 25% by developing dynamic UIs (Eel, Tkinter) with real-time feedback loops.</li><li>• Enforced best practices: Git version control, 100% test coverage for critical modules, and DRY/OOP principles for 0% faster debugging.</li><li>• Collaborated with students and mentors to improve performance and usability through iterative feedback and agile cycles.</li></ul>	

### EDUCATION

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<b>B.Tech, Computer Science &amp; Engineering,</b>	2022 – 2026
<i>Bhagwan Parshuram Institute of Technology, New Delhi</i>	New Delhi
Relevant Coursework: Data Structures, Algorithms, DBMS, AI/ML.	

TECHNICAL SKILLS

Languages

- Python (Advanced)
- SQL (Complex Joins, Indexing)
- JavaScript

Databases

- MySQL (Query Optimization)
- , SQLite,
- PostgreSQL (Basics)

Ai/ml

- OpenCV
- face\_recognition
- pyttsx3
- speech\_recognition
- LangChain Agents

Backend

- Flask (REST APIs, Authentication)
- Django (DRF, ORM)
- WebSockets

Soft Skills

- Team Collaboration
- Problem Solving
- Agile Development
- Technical Documentation

Tools & Utilities

- Git, Postman
- VS Code
- Eel
- SQLite Browser

PROJECTS

**Mobi - AI Virtual Assistant**, *GitHub: <https://github.com/maurya223/mobi-assistant>* 05/2025 – 06/2025

- Trained NLP models to process 10+ voice commands (WhatsApp/email automation, web search) with 92% accuracy, reducing manual tasks by 15 hours/month.
- Integrated knowledge-based agents (LangChain) for reasoning-based outputs, improving response relevance by 35%.
- Deployed lightweight GUI (Eel) with <1s latency for real-time query display.

**Face Recognition Attendance System**, 06/2025 – 07/2025

*GitHub: <https://github.com/maurya223/face-attendance>*

- Achieved 98.5% recognition accuracy (OpenCV, face\_recognition) for 50+ users, cutting attendance processing time from 5 mins to 30 secs.
- Designed MySQL schema with indexed queries, enabling sub-second retrieval of 10K+ records.
- Added CSV export, reducing admin report generation time by 90%.

**Weather Detection App**, *Gitllub: <https://github.com/maurya223/weather-app>* 05/2025

- Leveraged OpenWeatherMap API to fetch global data in <2s, with caching reducing redundant calls by 70%.
- Implemented input validation, slashing user errors by 60%.

**Hangman Game with GUI**, *GitHub: <https://github.com/maurya223/hangman-game>* 04/2025

- Increased user retention by 0% via doodle-style UI, confetti animations, and 100+ word database.

CERTIFICATIONS & ACHIEVEMENTS

Python Programming

TestDome

Scored Top 5% in OOP, algorithms, and debugging.

SQL Fundamentals TestDome

Optimized 20+ queries for sub-100ms performance.

Key Achievement

Reduced API response time by 0% via caching and asyne programming in freelance projects.