

# PRITHVI SRIVASTAVA

## PYTHON AND AI/ML | FULL STACK DEVELOPER

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### PROFESSIONAL EXPERIENCE

#### MRP Shop - Backend Team Lead

April 2025 - Present

- Led a **team of 4** to redesign key APIs, reducing processing time by 40%.
- Introduced Alembic to manage **database migrations**, improving schema management.
- Built new features from scratch, using *Django*, contributing to product growth.
- Led the development of **70+ new APIs**, improving system functionality and scalability.

#### Ergosphere Solutions - Software Development Intern

September 2024 - March 2025

- Built and optimized **web scrapers** using Scrapy, improving extraction speed and accuracy.
- Containerized scrapers using **Docker**, streamlining scalability and deployment.
- Developed and exposed **REST APIs** using Django for seamless access to the scraped content.
- Implemented a **multi-threaded** scraping system, enabling concurrent processing of multiple domains.

### About Me

I'm a **Python engineer** with a strong foundation in AI/ML and full stack development. I have hands-on experience with **LangChain**, **Neural Networks**, **AI agents** and more which have deepened my understanding of AI/ML workflows. As the lead backend developer during my internships, I worked on complex backend logic, API design, and database management using **PostgreSQL** and MySQL further strengthening my full-stack capabilities.

### PROJECTS

#### Neural Network - Space Waves

- AI agent using Python and deep reinforcement learning (**Double DQN**).
- Computer-vision** pipeline with image preprocessing, obstacle detection, and state recognition.
- Model training with experience replay and **epsilon-greedy** strategy.

#### LLM Fine Tuning - Personality Depiction

- Fine-tuned** an open-source large language model using **LoRA** + 4-bit quantization.
- Implemented data preprocessing, **training pipeline**, and evaluation.
- Optimized resource usage to enable fine-tuning on **consumer-level GPU**.

#### Audio Fingerprinting - Shazam-Style Audio Fingerprinting

- Built a full-stack "**Shazam-style**" audio-fingerprinting app using Python and React.
- Designed and implemented an audio-processing pipeline (using **Librosa**, **NumPy**, **SciPy**).
- Containerized the application with Docker for consistent **deployment**.

### SKILLS

Python, Node.JS	Lora, Q-Lora	AWS
React, Vite, Next.Js	Numpy, Pytorch	Docker
Django, Flask, FastApi	OpenCv2, LangChain	Celery, Redis
JavaScript, TypeScript	Large Language Models	PostgreSql, MongoDB

## EDUCATION

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<b>Bachelor Of Computer Application</b>	<b>September 2023 - Present</b>
<i>Galgotias University, Greater Noida</i>	
Relevant coursework: Data Structures, Algorithms, Operating Systems, Web Development, Python Programming	
<b>Senior Secondary</b>	<b>April 2021 - March 2023</b>
<i>Marwari College, Ranchi</i>	
Relevant coursework: Computer Networks, Maths	
<b>High School</b>	<b>Upto April 2021</b>
<i>Jawahar vidya mandir, Shyamali, Ranchi</i>	
Relevant coursework: English, Math	