

Prateek Gaur

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EDUCATION

Artificial Intelligence and Data Science

Maharaja Agrasen Institute of Technology Delhi, India · Delhi, India · 2025 · 8.8

Senior Secondary

Saini A.V.M. Eng. Med. School, College Bandikui, India · Bandikui, Rajasthan · 2020 · 7.9

SKILLS

Languages & Tools : Python, C++, JavaScript, SQL, Docker, Git

Frameworks : PyTorch, TensorFlow, LangChain, FastAPI, Scikit-learn, Hugging Face, LlamaIndex

AI & ML : Generative AI, Agents, Deep Learning, Machine Learning, LLMs, RAG

Core Strengths : End-to-End AI Systems, API Integration, Model Deployment

EXPERIENCE

AI Engineer

DataAlchemy.AI

July 2025 - Present, Noida, India

- **Developed an automated GitHub code documentation generator** using Python and Fast API, converting repository structures into structured technical documentation with 95% accuracy and reducing manual documentation time by over 70%.
- **Built a full-stack AI-driven mock interview platform** enabling users to practice technical interviews with real-time feedback, integrated question generation, and performance analytics to improve user readiness by an estimated 60%.
- **Architected modular microservices** for event-driven automation and API integrations, ensuring scalable communication between GitHub webhook services and documentation pipelines while maintaining sub-second response latency.

Generative AI Intern

Otomashen

February 2025 - June 2025, Noida, India

- **Collaborated with 4+ cross-functional teams** to design and deploy AI-driven applications, contributing to 6+ projects and gaining hands-on experience in big data, backend (Flask, SQLite), and frontend integration workflows.
- **Engineered a Medical Chatbot** handling **1000+ simulated patient interactions**, leveraging an SQLite backend for appointment scheduling, Cancellation, Rescheduling and EHR (Electronic Health Record) management.
- **Designed a Virtual Avatar system** integrating **Wav2Lip** and **SadTalker**, achieving **90%+ lip-sync accuracy** and realistic head-motion responses through LLM-based contextual conversation generation.

PROJECT

GitHub Code Documentation Generator | FastAPI · Kafka · GitHub API · LangChain · Docker

DataAlchemy.AI · July 2025 - Present

- **Pioneered an AI-powered documentation generation system** that automated extraction and summarization of GitHub repository codebases, and updates the documentation Repo — improving documentation efficiency by **65%**.
- **Programmed an event-driven pipeline** leveraging Git APIs and NLP-based summarization models to automatically generate structured MARKDOWN files and module-level explanations for over **500+ code commits**.
- **Integrated Webhooks, Polling, and Apache Kafka** as a **distributed event-driven queue**, enabling **real-time communication** across repository workflows and backend microservices — **scaling to handle 10,000+ concurrent pull requests** with zero message loss.

Virtual Avatar Generation| Wav2Lip · SadTalker · GANs · LLMs · Python

E-Solutions · May 2025 - July 2025

- **Implemented a virtual avatar generation** pipeline leveraging **text-to-image diffusion models** and **facial landmark detection**, enabling lifelike 3D avatar synthesis with **>92% identity accuracy**.
- **Created a FastAPI-based microservice** for avatar generation, handling **asynchronous requests** and reducing API response time by **35%** through optimized Input/Output and batch processing.
- **Optimized inference and rendering** workflow, achieving a **40% reduction** in generation latency through model fine-tuning, **FP16** and **8-bit quantization**, caching mechanisms, and GPU resource optimization.

CERTIFICATIONS

Python for Data Science and Machine Learning Bootcamp (Udemy)

Udemy · 2024

Google Analytics for Beginners (Google)

Google · 2022