

Deepak Choudhary

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EDUCATION

ACHARYA INSTITUTE OF GRADUATE STUDIES, BANGALORE

Bachelors of Computer Applications - 9.4 CGPA

Karnataka, India

2022-2025

O.P JINDAL SCHOOL, RAIGARH

Higher Secondary Education, 12th Grade - 92.4%

Chhattisgarh, India

2019

O.P JINDAL SCHOOL, RAIGARH

Secondary Education, 10th Grade - 10 CGPA

Chhattisgarh, India

2017

EXPERIENCE

AI-ML Intern

Edunet Foundations

Feb 2025- Mar 2025

Bengaluru

- Developed and trained machine learning models for image-based disease prediction using Python libraries like Scikit-learn, Pandas, and Keras.
- Fine-tuned and optimized model performance through iterative experimentation and evaluation.
- Enhanced understanding of data preprocessing, model validation, and result optimization in real-world ML workflows.

PROJECTS

Ecom-microservice | TypeScript, Node.js, PostgreSQL, Redis, Docker, Stripe, BullMQ, MinIO

[Link](#)

- Built high-throughput Node.js microservices handling 150+ req/s with sub-320ms P95 latency, reducing database load by 70% via multi-layered Redis caching strategy.
- Implemented fault-tolerant distributed transactions across Order, Product, and Payment services using Saga Pattern and Circuit Breakers for data consistency and resilience.
- Secured payment infrastructure with Stripe integration (idempotency keys), JWT-based RBAC, and IP rate limiting to prevent duplicate charges and mitigate brute-force attacks.

Distributed-task-scheduler | Golang, Redis, Protobuf, Prometheus, Docker

[Link](#)

- Built high-throughput worker pool in Go using Goroutines and Buffered Channels for 50+ concurrent jobs, maintaining stable memory consumption under heavy load.
- Engineered fault-tolerant distributed queue with At-Least-Once Delivery via atomic Redis RPOPLPUSH and Reaper process, achieving 100% task recovery during node failures.
- Implemented distributed rate limiter using Redis Lua scripts and token-bucket algorithms to eliminate race conditions and protect services from traffic spikes.

YT-RAG Agent | Python, LangChain, ChromaDB, Perplexity API

[Link](#)

- Developed a Retrieval-Augmented Generation (RAG) pipeline to process YouTube transcripts and generate context-aware answers using LangChain and Perplexity API.
- Implemented core components including document loaders, text chunking, embeddings (HuggingFace), and vector storage (ChromaDB) for efficient retrieval.
- Engineered the system as a hands-on learning tool to demonstrate LangChain concepts like retrieval, chaining, and prompting for AI-powered information extraction.

CERTIFICATIONS & ACHIEVEMENTS

Docker for Beginners | Coursera

Defensive Python (Infosec) | Coursera | Grade: 83.33%

Advanced Python – Reconnaissance (Infosec) | Coursera | Grade: 87.50%

Runner-up, AI SIMBA Hackathon | Developed an AI-powered medical model analyzing patient history

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Golang, Java, C

Frontend: ReactJS, Tailwind, NextJS

Backend: NodeJS, Express, FastAPI, Prisma, Redis, Kafka

Databases: MySQL, PostgreSQL, MongoDB

DevOps: Git, GitHub, AWS, Prometheus, Grafana, Nginx, Docker, Kubernetes

Design Tools: Figma, Photoshop, Illustrator, Premiere Pro, After Effects, Lightroom, InDesign, Blender