

# Shantanav Kapse

Indore, India | shantanavkapse73@gmail.com | 7879899739 | linkedin.com/in/shantanav-kapse  
github.com/shantanavKapse | portfolio-shantanav

## Technical Skills

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**Web Development:** Django, Flask, FastAPI, React Js, HTML, CSS, JS

**Machine Learning:** Tensorflow, SKLearn, Numpy, Pandas, Transformers

**Databases:** PostgreSQL, MongoDB, MySQL

**Devops:** Docker, AWS, Jenkins

## Experience

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**Software Engineer Trainee**, Turing – Remote Jun 2025 – Present

- Designed, developed, and maintained efficient, high-quality Python code to train and optimize AI models. Conducted evaluations to benchmark model performance and analyze results for continuous improvement.
- Developed comprehensive explanations for evaluations, showcasing excellent reasoning and technical expertise.
- Led efforts in Supervised Fine-Tuning, including creating and maintaining high-quality, task-specific datasets.
- Collaborated with researchers and annotators to execute Reinforcement Learning with Human Feedback (RLHF).
- Conducted thorough peer reviews of code and documentation, providing constructive feedback and identifying areas for improvement.

**Software Engineer**, Worth Technology – Indore, India Aug 2023 – Present

- Developed and deployed a Visitor Management System integrating Aadhaar and Razorpay APIs, reducing manual check-in time by 70% and enabling real-time tracking for 2,000+ monthly visitors.
- Designed and maintained scalable microservices with Python, Docker, and AWS EC2, handling 5,000+ API requests daily while maintaining 99.9% uptime and optimizing backend performance.
- Reduced API response time by 30% through backend refactoring and MongoDB query optimization, while automating deployment workflows using Git and Docker, cutting release time by 40%.
- Scheduled automated cron jobs for periodic data collection and backend tasks, improving system reliability and reducing manual overhead.

## Projects

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### Real time chat application

- Built a full-stack chat platform allowing users to register, create or join rooms, and communicate in real time.
- Implemented authentication, session management, and room-based message routing using Django Channels.
- Integrated WebSockets for live communication and wrote client-side JS for asynchronous message rendering.
- Designed database models to manage users and messages, gaining experience in stateful, multi-user system design.

### Data Visualisation Tool (Vizualser)

- Developed a web-based tool for cleaning and visualizing structured datasets during a 36-hour hackathon.
- Enabled users to preprocess CSV/Excel files and generate interactive charts for exploratory data analysis.
- Built modular Flask backend and deployed a simple frontend, improving data analysis efficiency by 40%.
- Designed a user-friendly interface to make technical workflows accessible to non-technical users.

## Education

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<b>Acropolis Institute of Technology &amp; Research</b> , B.Tech. in CSE - 8.25 CGPA	Nov 2020 – June 2024
<b>New Pink Flower H.S. School</b> , 12th PCM - 88.4%	Apr 2019 – June 2020
<b>New Pink Flower H.S. School</b> , 10th - 89.2%	Apr 2017 – June 2018