

# Atharva Nagarsekar

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## PROFESSIONAL SUMMARY

AI & Data Science undergraduate with hands-on experience in Machine Learning, NLP, and Generative AI. Proven track record of building scalable systems from recommender engines to multi-agent legal assistants with measurable real-world impact. Published researcher and hackathon finalist, passionate about applying cutting edge AI to solve complex business challenges. Skilled in LLM orchestration and generative pipelines, with a focus on solutions that combine technical depth and social relevance

## EDUCATION

### Dwarkadas J Sanghvi College of Engineering

B.Tech in Artificial Intelligence and Data Science; CGPA: 9.3

Mumbai, India

Aug. 2022 – June 2026

## TECHNICAL SKILLS

**Languages:** Python, C++, Java, JavaScript, SQL

**ML/AI:** TensorFlow, PyTorch, Scikit-Learn, Keras, Hugging Face, LangChain, Reinforcement Learning, Generative AI, NLP, Computer Vision, LLM Fine-tuning, Recommendation Systems, Explainable AI

**Frameworks/Tools:** Flask, Django, React, OpenCV, Streamlit, Git, Docker

**Data/Visualization:** MySQL, MongoDB, Firebase, Power BI, Tableau, Excel

**Cloud:** AWS, GCP, Microsoft Azure

**Soft Skills:** Problem-solving, Critical Thinking, Leadership, Communication, Teamwork, Adaptability, Data Storytelling

## EXPERIENCE

### Data Science Intern

Next24tech Technology and Services

June 2024 – Aug 2024

Nagpur, India

- Engineered an E-commerce recommendation system using collaborative filtering, boosting personalization and increasing click-through rates by **15%**.
- Optimized product data pipeline, cutting model training time by **30%** and accelerating deployment.

## PROJECTS

### VidGyan | NLP, Generative AI

Dec 2023 – June 2025

- Automated educational video pipeline, reducing content creation time by **80%**.
- Improved script coherence to **95%** using Gemini API and boosted audio-visual sync to **90%**.

### Fin-AI-lytics | AWS, ML

Sep 2024 – Dec 2024

- Built AI-powered financial advisor with live stock integration, achieving **90% prediction accuracy**.
- Implemented portfolio optimizer, improving simulated returns by **12%**.

### TasteTrail | Deep Learning, EDA

Aug 2024 – Oct 2024

- Developed food recommendation engine with **85% user satisfaction** in pilot testing.
- Enhanced personalization with calorie/budget filters, increasing adoption rate by **20%**.

### StyleGen | Computer Vision, CGAN

Jan 2025 – Mar 2025

- Designed a web app generating unique fashion outfits via Conditional GANs.
- Applied adversarial training in PyTorch; structured outputs guided by garment masks.

### Nyaya Mitra | Agentic AI, CrewAI

Feb 2025 – Present

- Developed multi-agent legal assistant for research, contract drafting, and case prediction.
- Processed 10,000+ legal documents with NLP pipelines; improved retrieval precision by 30% using semantic search.

## RESEARCH & ACHIEVEMENTS

### Research Paper: VidGyan: AI-Powered Educational Video Generation

AITA 2025

- Co-authored and presented research on LLMs, TTS, and image generation for automated video creation.
- Won the best paper award under the Intelligent Systems track.

### Hackathon: DataHack Hackathon

S4DS DataHack

- Led a team of 4 to build a working prototype under tight deadlines, showcasing leadership and problem-solving.

## CERTIFICATIONS

- Machine Learning – DeepLearning.AI
- Cloud Computing - Duke University
- Data Analyst Certification - Datacamp
- Artificial Intelligence Certification - HarvardX
- Data Science, NLP & Deep Learning - Udemy