

RACHIT NIGAM

AI/ML Engineer

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Summary

AI/ML Engineer fresher with hands-on experience in building end-to-end ML pipelines, Generative AI, and RAG-based applications. Skilled in model development, data preprocessing, and API deployment using FastAPI & Docker. Developed 25+ open-source AI/ML projects and contributed to impactful automation during internship, with strong foundations in Computer Vision, NLP, and cloud deployment.

Experience

AI Automation Intern – Help Study Abroad, Delhi NCR | Mar 2025 – May 2025

- Automated education workflows (document verification & student communication) using Python, reducing manual effort by **30%** and improving processing speed.
- Designed and deployed internal ML process automations for application handling, increasing consistency and cutting errors by **~20%**.
- Assisted in deploying ML models with **monitoring & logging pipelines** using FastAPI and Docker, ensuring high reliability in production-like environments.

Projects

- **RAG YouTube Video Chatbot:** Built a YouTube Q&A chatbot using **LangChain & Hugging Face**; extracts content from video URL and answers real-time questions (~85% relevance).
- **Movie Recommendation App:** Collaborative filtering engine with Python & Streamlit; top-5 recommendations with **30% faster response**.
- **Startup Profit Prediction:** ML regression model predicting monthly profit (~88% accuracy); deployed as **interactive Streamlit dashboard**.

Skills

- **Machine Learning & Generative AI:** PyTorch, TensorFlow, scikit-learn, Hugging Face, LangChain, RAG Systems, Agentic AI
- **Data Science & NLP:** Pandas, NumPy, NLTK, spaCy, OpenCV, Data Preprocessing, Computer Vision
- **Web Development & DevOps:** FastAPI, Flask, REST APIs, Docker, Git, MongoDB, PostgreSQL
- **Programming & Cloud Tools:** Python, SQL, JavaScript, AWS (EC2, S3), Data Visualization

Education

Bachelor of Computer Applications (BCA) – K.J. Institute of Engineering & Technology, Vadodara | Aug 2025

- Ranked among top 2% students with multiple academic excellence awards and strong foundations in AI and ML.

Achievements

Performance Award & LOR received for impactful AI automation contributions during internship.

Built 25+ open-source ML projects (including RAG YouTube chatbot & medical diagnostics), with active GitHub contributions and measurable outcomes.

Led end-to-end project execution across multiple domains, from ideation to deployment, achieving improved efficiency, accuracy, and real-world usability.