

Deepak Baghel

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Professional Summary

Aspiring Machine Learning and AI Engineer currently pursuing a B.Tech in Computer Science Engineering with specialization in Artificial Intelligence and Machine Learning (AIML) at GL Bajaj Group of Institutes (2023–2027). Passionate about developing impactful AI solutions by simplifying complex real-world problems. Skilled in generative AI, computer vision, NLP, and machine learning frameworks with hands-on experience in building scalable intelligent systems using modern tools and technologies.

Education

B.Tech in Computer Science Engineering (AIML)

GL Bajaj Group of Institutes | 2023 – 2027

- Scored 90% in JEE through self-study

Technical Skills

- **Programming Languages:** Python, C
- **Machine Learning:** Supervised & Unsupervised Learning, Regression, Classification, Hyperparameter Tuning, Feature Engineering
- **Deep Learning & AI:** Neural Networks, NLP, Computer Vision, Generative AI
- **Frameworks & Tools:** FastAPI, LangChain, Retrieval-Augmented Generation (RAG), Scikit-learn, PyTorch, OpenCV, Docker, CI/CD
- **Libraries:** NumPy, Pandas, Matplotlib, Seaborn
- **Soft Skills:** Team Management, Collaboration, Problem-solving

Certifications

- Supervised Machine Learning: Regression and Classification (Coursera | Andrew Ng)
- Advanced Learning Algorithms (Coursera | Andrew Ng)
- OCI Generative AI Professionals (Oracle Race to Certification)

Projects

Enterprise Document Comparison and Summarization Portal

Technologies: LangChain, RAG, FastAPI, Docker

- Developed an enterprise-level portal enabling users to upload multiple documents for analysis, comparison, and contextual summarization using LLM-powered workflows.
- Integrated FastAPI backend and containerized the application using Docker for scalable deployment.

Vehicle Counter System

Technologies: OpenCV, Kalman Filter

- Designed and implemented a system to track and count vehicles on a 2-lane highway.
- Accurately distinguished and counted incoming and outgoing vehicles for effective traffic monitoring.

Email Spam Detection

Technologies: NLP, Naïve Bayes, Logistic Regression, SVM

- Applied NLP preprocessing and word-level feature engineering to build spam email detection models.
- Achieved 98% accuracy through effective model selection and tuning.

Hybrid E-commerce Recommendation System

Technologies: Collaborative Filtering, Content-Based Filtering, Data Visualization

- Built a recommendation engine combining collaborative and content-based filtering techniques.
- Developed data visualization dashboards to provide insights into product recommendations.

Achievements

- Runner-up, Hackinfinity Hackathon (Inter-college competition)
- Ranked 1200 out of 200,000 participants in Naukri Campus Young Turks
- Solved 100+ problems on Codeforces and Leetcode

Experience

Volunteer, Annual Fest

GL Bajaj Group of Institutes

- Coordinated events and gained practical experience in team management and event planning.