

GAURAV KUMAR CHOUDHARY

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EDUCATION

National Institute of Technology, Sikkim

Bachelor of Technology in Computer Science and Engineering | CGPA: 9.05/10.0

Aug 2023 – May 2027

TECHNICAL SKILLS

- Languages:** C, C++, Java, Python, JavaScript, SQL, PostgreSQL, MongoDB
- Web & Frameworks:** React.js, Next.js, Spring Boot, FastAPI, Flask, Node.js, RESTful APIs, HTML5, CSS3
- ML & AI:** TensorFlow, Keras, scikit-learn, NLP, Computer Vision, Deep Learning, pandas, NumPy, Matplotlib
- Tools:** Git, Docker, MLflow, Jira, Bitbucket, VS Code, IntelliJ IDEA, PyCharm, Postman
- Concepts:** Data Structures & Algorithms, OOP, SDLC, Agile, Machine Learning, Semantic Segmentation

WORK EXPERIENCE

Software Development Engineering Intern

BLG Technologies Pvt. Ltd., Remote

Dec 2025 – Present

- Developing Tender Intelligence System using Regex + Semantic NLP for automated eligibility analysis, processing 500+ tenders monthly.
- Improved classification accuracy from 70% to 85% by implementing advanced matching algorithms and data preprocessing pipelines.
- Collaborating in Agile environment with daily standups and sprint planning using Jira and Bitbucket for version control.

AI Engineering Intern

YantraPragya, Remote

Dec 2025 – Jan 2026

- Developed custom U-Net model for semantic segmentation of dental X-rays using TensorFlow and Keras, achieving 92% accuracy.
- Implemented encoder-decoder architecture with skip connections and data augmentation for improved model generalization.
- Optimized training pipeline using Batch Normalization and hyperparameter tuning, reducing training time by 30%.

PROJECTS

Student Performance Prediction System | Python, Scikit-learn, MLflow, Docker, Flask

| GitHub

- Built ML pipeline with regression models (Linear Regression, Random Forest, XGBoost) achieving 87% accuracy on test dataset.
- Implemented MLOps workflow with MLflow for experiment tracking, model versioning, and automated retraining.
- Containerized application using Docker and built RESTful API with Flask, reducing deployment time by 60%.

Smart Expense Splitter | React.js, Vite, FastAPI, Python, Recharts, PostgreSQL

| Live

- Built full-stack SPA for group expense management with glassmorphism UI, serving 100+ active users with 99% uptime.
- Integrated FastAPI backend with RESTful APIs for expense tracking and PostgreSQL database for data persistence.
- Implemented OCR-based bill parsing using Tesseract.js to extract expense details, reducing manual entry time by 70%.
- Created interactive visualizations using Recharts for spending patterns and deployed on Vercel with automated CI/CD.

Resume-Job Category Matcher | Python, NLP, TF-IDF, ML, Flask

| Live

- Built NLP classification system to categorize resumes into 25+ job categories using TF-IDF vectorization and ML algorithms.
- Achieved 89% accuracy using ensemble methods (Random Forest, SVM) with GridSearchCV hyperparameter optimization.
- Deployed Flask web app with responsive UI for PDF resume upload and instant category prediction.

ACHIEVEMENTS & CERTIFICATIONS

- Solved 250+ LeetCode problems (DSA) covering dynamic programming, graphs, trees, and algorithm optimization.
- Participated in Smart India Hackathon (SIH) 2024 at national level, competing with 10,000+ teams across India.
- Certified in Geodata Processing (ISRO) and Complete Data Science & ML Bootcamp by Krish Naik (100+ hours).
- Active open-source contributor on GitHub with 50+ contributions; Class XII (88%) and Class X (91%) CBSE.

LEADERSHIP

Active Member

Devfans — Development and Coding Club, NIT Sikkim

Nov 2024 – Present

- Contributed to open-source projects and participated in technical discussions on modern development practices.
- Organized coding workshops and hackathons for 100+ students, promoting competitive programming culture.

Web Development & Publicity Volunteer

Udgam Cultural Fest, NIT Sikkim

Nov 2024

- Contributed to web development for official fest website with responsive design and event registration module.