

# Dhruv Kumar Singh

+91-7425058803 | [dksanuel2@gmail.com](mailto:dksanuel2@gmail.com) | [LinkedIn](#) | [GitHub](#)

## EDUCATION

**Vellore Institute of Technology**  
*Bachelor of Tech in Computer Science, CGPA: 8.19*  
**AECS NARORA**  
*Schooling*

Bhopal, MP  
*May 2023 – May 2027*  
Narora, UP  
*June 2011 – April 2023*

## EXPERIENCE

### Python Data Engineer Intern

*Legal Gini*

Feb 2025 – April 2025

*Remote, New Delhi*

- Designed a web crawler using Python, Selenium achieving a 50% increase in efficiency for data mining
- Engineered an automated data pipeline with parallel processing, boosting workflow speed by 500%.
- Deployed an AI agent to actively monitor workflow logs 24/7, providing instant feedback.
- Optimized vectorization and data upload to AWS S3 Buckets, accelerating model training.

### Software Engineer Intern

*Elite Forums*

Jan 2025 – Feb 2025

*Remote, Mumbai*

- Built an event platform with React, Redux, and Tailwind, boosting engagement by 25%.
- Developed RESTful APIs (Django/Flask) with WebSocket integration, cutting response times by 25%.
- Optimized PostgreSQL/MySQL schemas, improving query performance by 30%.
- Integrated key services (Stripe, Twilio, Zoom) to raise user satisfaction by 20%.
- Secured apps with OAuth/RBAC and streamlined deployments via GitHub Actions on GCP, reducing cycles by 50%.

## PROJECTS

### Neural Image Caption Generator | *Python, TensorFlow, InceptionV3, LSTM*

March 2025 – June 2025

- Built a model that uses InceptionV3 (CNN) to "see" images and an LSTM to write captions.
- Added attention so the model learns to look at the most important parts of each image.
- Prepared and cleaned the Flickr8k dataset, including turning words into tokens and padding sequences.
- Tuned training settings to reach strong results (BLEU-40.41, ROUGE-L0.53).

### Ecommerce Web app | *MongoDB, React.js, Node.js, Express.js*

Feb 2025 – March 2025

- Developed a full-stack MERN e-commerce app with secure token authentication.
- Integrated Stripe for payments, Cloudinary for media, and Redis for caching.
- Managed configurations via a robust .env file for secure deployments.

### Automated Web Scraping Pipeline | *MongoDB, React.js, Node.js, Express.js*

Dec 2024 – Feb 2025

- Architected a robust data pipeline with Selenium, Scrapy, and BeautifulSoup, ensuring 99.9 percent uptime and zero data loss
- Streamlined data preprocessing, accelerating read operations by 10 percent.
- Developed AI models to bypass reCAPTCHA within 7 seconds for uninterrupted data extraction.
- Enhanced versatility by supporting multiple data formats: text, graphs, tables, and AI-summarized reports.

## TECHNICAL SKILLS

**Languages:** C++, JavaScript, Python, OOP in C++

**Libraries Frameworks:** React, Redux, Node.js, Express.js, HTML, CSS, Tailwind CSS, REST APIs, Selenium, Flask

**Tools and Platforms:** GitHub, Docker, Firebase, VS Code, Postman, Figma, Unix/Linux, Google Cloud Platform

**Other Skills:** MongoDB, Image Text Preprocessing, Attention Mechanism, Model Deployment (NLP), BLEU/ROUGE Evaluation

**Soft Skills:** Communication, Teamwork, Leadership, Public Speaking, Technical Writing

## CERTIFICATIONS & ACHIEVEMENTS

- Supervised Machine Learning: Regression and Classification – Coursera, Stanford University
- Advanced Learning Algorithms by Andrew Ng – Coursera
- NPTEL Elite Certificate in Cloud Computing
- Solved 300+ LeetCode problems and active on GeeksforGeeks platform
- Core Tech Team Member, iOS Club – Swift, Xcode, Firebase projects
- District-Level Table Tennis Winner – Champion in Singles category