


# SUDEV BASTI

 [GitHub](#) |  [sudevbasti0717@gmail.com](mailto:sudevbasti0717@gmail.com) |  9036167707

## SUMMARY

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B.E. AIML engineering student with hands-on experience in Python, SQL, and ML frameworks through academic projects and internships. Passionate about building scalable AI solutions and eager to contribute to impactful projects across domains.

## PROJECTS

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**Network Intrusion Detection Using ML** - Developed an ML model to detect and classify network intrusions by capturing spatial and temporal patterns in traffic data. Applied feature engineering and hyperparameter tuning to improve accuracy, and evaluated on benchmark datasets. Designed to provide real-time insights into network security threats to strengthen infrastructure protection.

**AI-Based Indian Road Pothole Detection** - Developed an AI-powered system for detecting potholes on Indian roads, trained on a custom dataset of 2,000+ images with data augmentation for real-world robustness. Achieved 92% accuracy with reduced false positives.

## INTERNSHIP - IIIT, Dharwad

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**Hate Speech Detection Using Machine Learning** - Developed a multilingual hate speech detection system for Hindi-English code-mixed social media text. Designed to identify subtle hateful content and misleading posts, the system secured 3rd place in Task A of ICON 2024. Published a research paper detailing the framework and methodology. [PUBLICATION](#) [PROCEEDINGS](#) [CERTIFICATE](#)

**Law GPT – LLM-Powered Indian Legal Assistant (Ongoing)** - Developing an AI-powered legal assistant for Indian law, enabling real-time Q&A across 158K+ legal records. The system ingests web-scraped data from LawRato, Kanoon, and multiple other legal sources to provide accurate and comprehensive information, deployed for scalable access.

## EDUCATION

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**SDM College of Engineering and Technology, Dharwad.**

**2022-2026**

B.E. in Artificial Intelligence and Machine Learning | CGPA - 7.9 (As of 6th semester)

**Indian Institute of Technology (IIT), Ropar**

**NOV 2024 – DEC 2025**

Minor in Artificial Intelligence | [ID CARD](#) | [24102162@scale.iitrpr.ac.in](mailto:24102162@scale.iitrpr.ac.in)

## SKILLS

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**Programming Languages:** Python, C, SQL, Java

**Frameworks & Libraries:** TensorFlow, PyTorch, Scikit-learn, OpenCV, Prompt Engineering

**Platforms & Tools:** Android Studio, Firebase, Railway, VS Code

**Domains:** Web Development, Android Development, Machine Learning, Deep Learning, API Integration

**Soft Skills:** Teamwork, Adaptability, Creativity, Leadership, Time Management, AI-driven Creativity

**Languages:** English, Kannada, Hindi

**Interests:** Traveling, Photography, Digital Art, Cricket, Team Sports

## EXTRA-CURRICULAR ACTIVITIES

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Department Main Coordinator, INSIGNIA 24, SDMCET

Volunteer Trainer for NMMS Scholarship Exam, Gurukul Government High School

## Certifications

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Machine Learning for All | [CERTIFICATE](#)

Programming using Java | [CERTIFICATE](#)

21st INTERNATIONAL CONFERENCE ON NATURAL LANGUAGE PROCESSING | [CERTIFICATE](#)