Dhruv Kumar

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EDUCATION

- **Jaypee Institute Of Information Technology Noida** — Uttar Pradesh, India
  Bachelor of Technology - Electronics And Communication Engineering; GPA: 6.4 — *August 2023 - July 2027*
- **Sir Padampat Singhania School** — CBSE
  Class XII; Percentage: 67.40% — *2023*
- **Sir Padampat Singhania School** — CBSE
  Class X; Percentage: 84.16% — *2021*

PROGRAMMING PROFILES

- LeetCode: DhRuVVVKuMaR
- CodeChef: idealtoy13
- Codeforces: rerqt2318

SKILLS SUMMARY

- **Languages**: Python, PHP, C++, JavaScript, SQL, Java, HTML5, CSS3, JavaScript, TypeScript, Pandas, Numpy
- **Frameworks**: ExpressJs, ReactJS, NodeJS, ElectronJs, Flask, Scapy, SocketIO, MySQL, PostgreSQL, OpenCV
- **Tools**: Git, GitHub, Firebase, FireStore, Docker, Postman
- **Platforms**: Linux, H-Spice, Keil µVision5.0, Proteus

EXPERIENCE

SabPaisa — Remote
SDE Intern — *June 2025 - August 2025*

- **Project – WoFlow Automation Desktop Application**: Designed and developed a full-stack workflow automation application, handling fullstack architecture.
- **System Reliability Fault Tolerance**: Improved stability by strengthening error handling, resolving edge cases, and debugging production issues.
- **APIs User Analytics**: Built scalable API endpoints and implemented user-level statistics and productivity analytics to support cross-platform functionality.

PROJECTS

- **Network Intrusion Detection System**:
  - Backend-driven intrusion detection system using packet-level traffic analysis and statistical anomaly detection to identify abnormal network behavior in real time.
  - Implemented rolling statistics, z-scores, and feature aggregation to detect attacks missed by traditional signature-based IDS.
  - Developed a live monitoring dashboard for real-time threat visualization and analysis.

  Tech: Python, Flask, Scapy, SocketIO, NumPy, Pandas
  GitHub Link (November 2025)

- **WoFlow – AI-Powered Workflow Optimization Desktop App**:
  - Built an AI-powered desktop application that tracks user activity to identify workflow bottlenecks and inefficiencies.
  - Implemented ML-based recommendations to automate repetitive tasks and improve overall productivity.
  - Designed scalable data pipelines for analytics reporting and export, ensuring reliability and performance.

  Tech: ReactJS, ElectronJS, NodeJS, Recharts, Material UI, Gemini API
  GitHub Link (July 2025)

VOLUNTEER EXPERIENCE

- **Jaypee Youth Club**
  Organized college hackathons, technical fests, and cultural events while coordinating with teams and volunteers.

- **IEEE AP-S Student Branch Chapter, JIIT Noida**
  Student Volunteer involved in organizing technical talks and workshops on antennas, RF, and wireless technologies.

- **IEEE MTT-S Student Branch Chapter, JIIT Noida**
  Student Volunteer involved in organizing technical talks and events on RF, microwave engineering, and wireless communication