Jagrati Devi

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Electronics and Communication Undergraduate   https://www.linkedin.com/in/jagrati-devi-a2044a284/

"To secure a demanding and fulfilling role as an Electronics Engineer, allowing me to apply my expertise and abilities."

Education

Pranveer Singh Institute of Technology	Nov,2021- May,2025
Bachelor of Technology in Electronics and communication	CGPA: 6.6
SDSG Inter College	Apr,2020 – May,2021
UP Board - Intermediate	Percentage: 72
SDSG Inter College	Apr,2018 – May,2019
UP Board - High School	Percentage: 78

Skills

- **Languages/Libraries**: Java, HTML, CSS.
- **Coursework**: Data Structures and Algorithms, Database Management System, Integrated Circuit, Electronics Devices.
- **Developer Tools/Frameworks**: VS Code.

Projects

RFID Based Smart Ticketing System
- Designed and developed a robust infrastructure using RFID tags, readers and a centralized database management system for **real-time ticket validation and management**
- Improved operational efficiency by reducing waiting times and minimizing queues through the use of **real-time data analytics.**

Density Based Traffic Light System
- Developed a density-based traffic light system with an Arduino Uno and infrared sensors for real-time traffic control.
- Optimised Traffic flow by dynamically modifying light patterns in response to **IR sensors detection of vehicle density**.
- **Enhanced Traffic Efficiency** by using an automated, intelligent system that shortens travel times and eases congestion.

Smart Bridge
- Developed a smart bridge monitoring system that **uses sensors** to assess the status in real time.
- For traffic control, automated toll gates that are connected with sensors for vehicle detection have been developed and designed energy-efficient smart streetlights.
- Gained expertise in **Arduino and sensor technology** to build and implement working prototypes.

Achievements and Certifications

- Certified in Java by Udemy.
- Certified in Data Structures and Algorithms by Infosys.
- Achieved 5-star ratings in Problem Solving on HackerRank.
- Certified in HTML and CSS by Infosys.