

# Ayushi Sharma

Raebareli, Uttar Pradesh

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## Profile Summary

Dedicated and analytical 3rd-year Electrical Engineering student with comprehensive knowledge in control systems, analog/digital electronics, power systems, power electronics, and electrical machines. Proficient in microprocessor/microcontroller programming and applying machine learning for intelligent system design.

## Relevant Coursework

- Control System
- Digital Electronics
- Microprocessor
- Electrical Machines
- Machine Learning
- Analog Electronics
- Power Electronics

## Projects

### Diabetes Prediction Using Support Vector Machine (SVM)

Tools: Python , NumPy , scikit-learn , Pandas , Matplotlib

*June 2025-July 2025*

- Used Python and scikit-learn to build an SVM-based classifier to detect diabetes.
- Preprocessed data using pandas, handled feature scaling with StandardScaler, and ensured robust evaluation using train/test split.
- Achieved 79 percent model accuracy with consistent training and test results.
- Built an interactive prediction interface to accept new patient data and return diagnostic outcomes

### Traffic Light Controller - Highway and Country Road

Tools: Verilog , EDA Playground

*June 2025-July 2025*

- Designed a smart traffic light controller where the highway stays green by default, and the country road gets access only when a vehicle is detected.
- Implemented using a finite state machine (FSM) with Red, Yellow, and Green light control and vehicle sensor input.
- Simulated and validated the behavior using EDA Playground, with timing logic for realistic signal change delays.

## Technical Skills

**Analytical Tools:** MS Excel , MS PowerPoint , MS Word

**Languages:** Python , Java , JavaScript , MATLAB , HTML , CSS

**Technologies/Frameworks:** Pandas, NumPy , Matplotlib , Simulink , Plescs , OpenCV

## Education

### MNIT Jaipur

B.Tech in Electrical Engineering - CGPA : 7.38

Jaipur , Rajasthan

*Aug 2023 – May 2027 (Expected)*

### Lucknow Public School, Raebareli

Intermediate in Science - Grade : 95

Raebareli , Uttar Pradesh

*June 2021 – May 2022*

### Lucknow Public School, Raebareli

Matriculation - Grade : 90

Raebareli , Uttar Pradesh

*June 2019 – May 2020*

## Extracurricular / Certifications

- Executive - The Mavericks
- Executive - UNNAT BHARAT ABHIYAN