

# ANUJ SHRESTHA

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## PROFESSIONAL SUMMARY

Undergraduate Electrical and Electronics Engineering student at Kathmandu University with a strong foundation in power systems and control technologies. Expanding expertise in data science, including big data processing, cloud computing, and ETL workflows. Proficient in SQL, NoSQL, distributed computing, and cloud platforms like AWS.

## EDUCATION

### Bachelor of Electrical and Electronics Engineering | 2020-2025

Kathmandu University, Dhulikhel

## EXPERIENCE

### Electrical System Design Head | 2024-2025

Team Urja, Nepal's 1st FSAE Racing Team

- Led the electrical design and development of Nepal's first Formula 3 electric vehicle, focusing on subsystem integration
- Participated in Formula Bharat 2025 Event.

## TECHNICAL SKILLS

- Languages: Python | SQL | MATLAB
- Technologies & Tools: AWS | MySQL | Power BI | Tableau | Kafka | Airflow | Spark
- Skills: Database management | Data Analysis (Pandas) | ETL Process | Data Warehousing
- Electrical: PCB Design & Simulation | Electrical Schematic Design | Wiring Diagrams
- Embedded Systems & Robotics: Microcontrollers | Sensor integration | Autonomous robotics

## PROJECTS

### Predictive Maintenance for Static VAR Compensators (SVC)

- Developed a machine learning-based predictive maintenance system for Static VAR Compensators (SVCs), leveraging sensor data to forecast failures and optimize performance, reducing downtime and improving grid reliability. [GitHub](#)

### Customer Segmentation and Personalization for E-Commerce

- Developed a machine learning model to segment e-commerce customers based on behavior and demographics, using clustering algorithms like K-means. [GitHub](#)

### Robotic Drain Crawler for Dengue Detection

- Designed and developed an autonomous robot able to maneuver drain.
- Also designed a CNN model that detected Dengue Eggs in the drainage system. [GitHub](#)

### Fixed Capacitor - Thyristor Controlled Reactor

- Developed MATLAB/Simulink Simulations of the whole system.
- Implemented the model in single phase system.

### Spotify Controller

- Developed a Spotify controller using Arduino to control music playback.
- Integrated Spotify API for seamless user interaction and customized functionality. [GitHub](#)