



# DAYANANDA SAGAR COLLEGE OF ENGINEERING

(An Autonomous Institute affiliated to Visvesvaraya Technological University (VTU), Belagavi,  
Approved by AICTE and UGC, Accredited by NAAC with 'A' grade & ISO 9001-2015 Certified Institution)  
Shavige Malleshwara Hills, Kumaraswamy Layout, Bengaluru - 560 111.

## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

### PROJECT PRESENTATION

#### DATA VISUALIZER ROVER

Group No. 28

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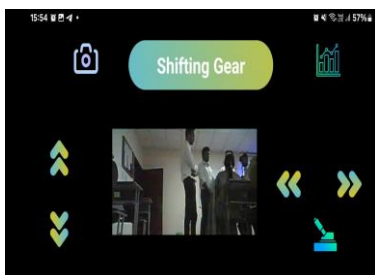
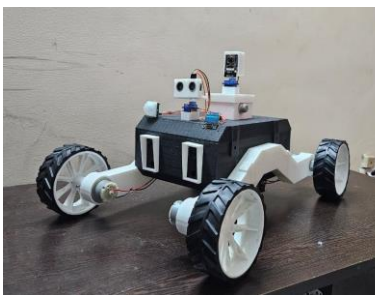
#### Objective

1. Global Long-Range Controllability.
2. Mobile App for Control, Video Streaming and Data Visualization.
3. Real-Time Data Processing.
4. Full Customizable Functionality

#### Experimental Details

Introducing the Data Visualizer Rover, a cutting-edge system combining data collection, processing and real-time visualization through a user-friendly mobile interface. Experience seamless exploration and analysis of data anywhere with our innovative technology.

#### Background / Photos of the Project



#### Salient Features of the project

1. Navigation and Controlling.
2. Camera Accessibility and Live Streaming.
3. Sensors and Instrumentation.
4. Software implementation for mobile app and 3D printing.

#### Applications of the Project

1. Security and Surveillance.
2. Scientific Research.
3. Agriculture: Soil Condition Assessment.
4. Wildlife Conservation and Monitoring.

#### Results / Output

1. Efficient Data Visualization
2. Robust Communication Reliability.
3. Enhanced Exploration Capabilities.

#### Conclusion

This project integrates robotics and environmental monitoring, advancing autonomous systems and data exploration through collaboration.