**✅ 1. Introduction (0:00 – 0:30)**

* Introduce yourself and the project:

"Hi, I'm Mandla Nagendra. This is my project TrafficTelligence, an AI-powered system that predicts hourly traffic volume based on real-world features like time, weather, and public events."

**✅ 2. Project Objective (0:30 – 1:00)**

* Explain what problem you're solving:

**"It helps predict traffic in advance using machine learning, so city planners or event organizers can take decisions to manage congestion more efficiently."**

**✅ 3. Project Structure Overview (1:00 – 1:30)**

* Show your folder structure briefly in VS Code
* Point out:
  + **scripts/: data, preprocessing, training**
  + **model/: trained model**
  + **templates/index.html: frontend**
  + **app.py: backend**

**✅ 4. Demo the Web App (1:30 – 3:30)**

* Run app.py and open the browser (localhost:5000)
* Show features:
  + **📅 Enter date/time, temperature**
  + **☁️ Select weather and event**
  + **🔍 Click “Predict Traffic Volume”**
  + **💬 Show the prediction result**
  + **🌙 Toggle dark mode**
  + **⚡ Use quick scenarios**
  + **📊 Explain feature importance**
  + **📈 Show traffic pattern chart**

**✅ 5. How the Model Works (3:30 – 4:30)**

* Show train\_model.py and briefly explain:
  + **Features used: hour, day, temperature, weather, event**
  + **Model: Random Forest**
  + **Performance: R² = 0.96, RMSE ≈ 21**

**✅ 6. Conclusion & Future Work (4:30 – 5:30)**

**“It’s a full pipeline from data simulation to prediction with an interactive frontend.”**

**“Future versions will include deployment, real-time APIs, and user login history.”**