

Project Demonstration

The screenshot shows a software development environment with the following details:

- File Explorer:** Shows the project structure for "ELECTRIC_MOTOR_PROJECT". It includes an "app" folder containing "templates" (index.html, Manual_predict.html, Sensor_predict.html), "notebook" (jpype_checkpoints, Motor_temperature_Model-checkpoint.ipynb, measures_v2.csv), "model.save" (Motor_temperature_ModelLipynb, transform.save), ".gitignore", "README.md", and "requirements.txt". There is also a "Video.mp4" file.
- Code Editor:** The "app.py" file is open, showing Python code for a Flask application. The code loads a model from "notebook/model.save" and a scaler from "notebook/transform.save". It defines routes for the home page ("index.html") and a manual prediction page ("manual").
- Terminal:** The terminal shows the command "python app.py" being run, followed by several warning messages from scikit-learn about inconsistent version warnings. It also shows the server starting at "http://127.0.0.1:5000".

The screenshot shows a web browser window titled "Smartinternz" with the URL "127.0.0.1:5000/manual". The page displays a "Manual Input" form with the following fields and values:

 - Ambient (°C): 23.5
 - Coolant (°C): 22.0
 - Direct Axis Voltage (U_d): 3.2
 - Quadrature Axis Voltage (U_q): 2.9
 - Motor Speed (rpm): 1480
 - Direct Axis Current (I_d): 0.18
 - Quadrature Axis Current (I_q): 1.35
 - Torque (Nm): 7.8

A blue button labeled "Predict Temperature" is visible at the bottom of the form.

The screenshot shows a web browser window titled "Electric Motor Prediction" with the URL "127.0.0.1:5000". The page displays a "Motor Temperature AI" interface with two main buttons:

 - Manual Prediction →**
 - Sensor Prediction →**

Below the buttons, the text "8 parameters - real-time - 99% accuracy" is displayed.

