

### Format for the Weekly Progress Report

<b>Name of the Student 1</b>	Dev Pandya
<b>Roll Number of Student 1</b>	22BCP409
<b>Name of the Student 2 (if any)</b>	Kavya Patel
<b>Roll Number of Student 2 (if any)</b>	22BCP406
<b>Project Title</b>	<b>Smart Energy Consumption Monitoring and Prediction Using Big Data</b>
<b>Name of the Supervisor (Mentor) at PDEU</b>	Dr. Samir Patel
<b>Week Number</b>	Week 5

**Progress made in Week 5:**

**POSOCO/NLDC Reports** – Collected state-wise demand and peak load data from daily Power Supply Position reports.

**CEA Dashboard** – Downloaded monthly/annual data on installed capacity and supply position to enrich forecasting features.

**National Power Portal (NPP)** – Extracted region/state-wise daily generation data, especially renewable sources.

**data.gov.in** – Retrieved machine-readable datasets on peak demand, generation, and power availability gaps.

**External Features** – Identified weather (IMD, OpenWeather) and socio-economic indicators (GDP, population) for integration into the dataset.

**Progress:** Multiple datasets have been sourced, pipelines for cleaning/integration initiated, and a unified schema is under development.

Dev Pandya

Kavya Patel

Dr. Samir Patel

**Name & Signature of  
Student 1**

**Name & Signature of  
Student 2**

**Name & Signature of  
Supervisor (Mentor)**