



POWER OUTAGES INVESTIGATION

Group 7:

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- Imraan Vawda
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PROBLEM

- An investigation must be carried out for the numerous power outages that have been experienced.
- Management at ACME Power believe and are publicly claiming that the extensive power outages are caused by power surges.
- Technical personnel claim that outages are not caused by power surges and asked to investigate the discrepancies in the flow of current.

PLANNING

- The requirements for the investigation and the dataset provided was investigated.
- The investigation was split into 5 sections and each group member assigned a section:
 1. Integrate dataset and create variables for each team member (Thapelo)
 2. Confirm the technical teams claim that power outages are not caused by power surges (Tiisetso)
 3. Check losses across the power line, log all losses and calculate total losses (Imraan)
 4. Where there are loses/gains, add/subtract the losses back to the power line (Tiisetso)
 5. Integrate the entire solution (Thapelo)

IMPLEMENTATION

- Four Python Files:

1. main.py
2. read_csv_file.py
3. current_gain_loss.py
4. surger_checker.py

- Live Demo