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Here are descriptions of three capstone project ideas:

**1/ Healthcare Predictive Analytics**

**Problem:** The healthcare industry faces numerous challenges such as increasing costs, disparities in patient outcomes, and difficulty in predicting patient behavior.

**Data**: Electronic health records, demographic data, claims data, and patient behavior data.

**2/ Traffic Flow Optimization**

**Problem:** Urban traffic congestion is a major issue that leads to increased travel times, increased fuel consumption, and increased air pollution.

**Data**: Real-time traffic data, GPS data, demographic data, and road network data.

**3/ Renewable Energy Forecasting**

**Problem**: Accurately predicting the output of renewable energy sources such as wind and solar is important for the integration of renewable energy into the power grid.

**Data**: Weather data, energy production data, and demand data from the power grid.