**Structured Abstract**

**Analysis and Performance evaluation of Terapixel rendering in (Super)Cloud Computing Data**

**Gowdham Ramesh (20403421)**

The main goal is to evaluate and investigate the performance timings of the render application and GPU card, as well as the details of which part of the image was rendered in each task.

**Problems to be explored:**

* Assessing the event types that dominate task runtimes.
* Discovering the relationship between GPU metrics.
* Identification of serial numbers of GPU with least performance.
* Interplay between GPU Temperature and Power Consumption.
* Variation in Memory Utilization Percentage of the GPU with GPU Temperature.
* Event Runtime for each co-ordinate of the Rendered Tile for level 8.

The data must first be comprehended, then cleaned and preprocessed before performing exploratory data analysis, which is then performed and visualized. This analysis will aid in the improvement of the rendering process. All three application-checkpoint.csv, gpu.csv, and task-x-y.csv files, as well as Jupyter Notebook and GitHub, were used as resources.

**Key Images:**

**Chart, bar chart

Description automatically generated**

A picture containing calendar

Description automatically generated