**Data Analysis Report**

Overview - In this data analysis report, we present captured data from our Open Source Intelligent Application. The app retrieves data from sources like Instagram, Twitter, Reddit and City of Residence and performs analysis deriving meaningful insights.

Data Sources:

1. Instagram – Collects user profile, follower count, likes count, participation, metrics.
2. Twitter – Retrieves word counts, engagement.
3. City or Residence – Extracts information on weather of city of users
4. Reddit – Gathers user profiles, post details, comment metrics.

Analysis Approach:

1. Data Retrieval – Data is captured from each source using API requests and store in structured format.
2. Data Processing – Captured data is cleaning to extract relevant information, calculate metrics and perform analysis.
3. Visualization – Charts, Graphs, word clouds and tables created with the help of Python tools.
4. Insights – On the basis of analyzed data, trends and insghts are identified.

Findings:

1. Instagram Analysis – User engagement patterns and sources; likes count, follow count of the users.
2. Twitter Analysis – Most frequent words used by users in the form of word count.
3. Weather report – User’s city’s temperature and windspeeds recorded over 1 month.