1. ***AI/ML Model for Mental Health Prediction***

* **Description**: Build a machine learning model that predicts mental health outcomes (stress, anxiety, or depression) based on social media usage patterns.
* **Features**:
  + Input social media usage data (post frequency, content themes, engagement metrics).
  + Predict the likelihood of mental health impacts.
  + Provide recommendations based on patterns (e.g., reducing social media use).
* **Tools**: Python (libraries like scikit-learn, TensorFlow, Keras), Jupyter Notebooks.

***2. Sentiment Analysis Tool***

* **Description**: An application that collects data from social media platforms and uses **Natural Language Processing (NLP)** to assess the emotional tone of posts.
* **Features**:
  + Analyze user-generated content to detect positive, negative, or neutral sentiments.
  + Track emotional trends over time.
  + Correlate specific emotional states with user behavior (like increased usage during negative sentiment periods).
* **Tools**: Python (libraries like NLTK, TextBlob, VADER), APIs (Twitter, Instagram.

***3. Data Visualization Dashboard***

* **Description**: A web-based or desktop application that visually represents the impact of social media on various mental health aspects using charts, graphs, and timelines.
* **Features**:
  + Sentiment analysis of posts from Instagram, Twitter, etc.
  + Time spent on social media vs. mental health metrics (stress, anxiety, etc.)
  + Trend analysis on how certain topics (like politics, misinformation, etc.) affect mental well-being.
* **Tools**: Python (with libraries like Plotly, Dash), Tableau, Power BI.