**PROJECT TOPIC: Predict Tinder Matches with Machine Learning**

**AIML Group No.: 20**

**Project Group Members:**

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**Project Supervisor:** Mr. Aditya Upadhyay, Assistant Professor

**About the Project:**  "Predicting Tinder Matches with Machine Learning" involves leveraging advanced algorithms to estimate the compatibility between users based on their profiles. This involves collecting and preprocessing user data, creating relevant features, and training a predictive model. The model's performance is rigorously evaluated and optimized for accuracy before deployment to suggest matches. Emphasizing data privacy and user consent enhances the user experience and fosters meaningful connections in the Tinder-like environment.

**Motivation:** This project seeks to enhance the online dating experience, particularly on platforms like Tinder, by introducing personalized matchmaking through advanced technology. By utilizing intelligent algorithms, we aim to increase the likelihood of users finding meaningful connections. What sets this project apart is its dedication to maintaining user privacy and obtaining consent, ensuring a responsible approach to digital relationships. As a final year project, it represents a relevant and impactful application of learned skills to improve online connections.

**Project Planning:**



**Tools required:**

* **Hardware Requirements:**
  + Devices with internet connectivity for accessing the web application.
  + Firebase Hosting for deploying the web-based interface.
* **Software Requirements:**
  + Web browser for user interaction.
  + Integration with Firebase or similar database management system.
  + Python for backend development.
  + Optional: Jupyter Notebooks for data exploration.
  + Optional: Machine learning libraries like NumPy and pandas for data manipulation.
  + Optional: Web development frameworks such as Flask or Django for building the interface.

**Signature of Project Supervisor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**