

# Project Proposal

Name- **Personalized Language Learning Assistant**

## **Problem Statement and Target Audience :-**

Learning a new language can be very difficult and challenging, especially without guidance and feedback. Our target audience includes language learners of all ages and proficiency levels.

## **Unique Solution Approach :-**

Our AI solution gives language models to provide personalized language learning assistance and feedback based on user input and proficiency levels. We enable seamless communication between user and AI system and solve the preferences and challenges.

## **Key Features Envisioned :-**

**Personalized Learning Path** - Users input their language learning goals, proficiency level and areas of focus. The AI system then generates a personalized learning path as per user needs and preferences.

**Real Time Feedbacks** – Users receive real time feedback on their performance, including corrections for pronunciation, grammar mistakes etc.

**Content Recommendations** – The AI solution recommends learning resources like articles, videos and online courses.

**Progress Tracking** – Users can track their progress and improvements on application. Performance analysis gives user a idea to improve and adjust their learning technics accordingly.

## **Role of Python and LLMs in its technical implementation :-**

Python is most preferred language for developing AI solution. We can take advantage of Hugging Face Transformers library to interface with pre-trained language models. We can also understand user input, generate personalized learning content and provide interactive feedback.