# ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

PROJECT REPORT

**Title: Develop An Interpreter to Predict Language Using Mechine Learning**

**Team No:16(section-1)**

**Problem Statement:**

**Develop a language prediction interpreter that accurately identifies the language of a given text**

**input. The interpreter should leverage machine learning algorithms to analyze text features and**

**predict the language with high accuracy. This solution aims to enable efficient language**

**translation and processing in various applications.**

**Aim:**

**Develop an interpreter that can accurately predict the language of a given text input using**

**machine learning algorithms.**

**Algorithm Used:**

**1. Natural Language Processing techniques for text preprocessing and feature extraction**

**2. Machine learning algorithms:**

**- Naive Bayes**

**- Support Vector Machine (SVM)**

**- Random Forest**

**- Neural Networks**

**Integration with AI:**

**1. Data Sources:**

**- Text datasets in various languages (e.g., Wikipedia, books, articles)**

**- Language translation datasets (e.g., Google Translate, Microsoft Translator)**

**2. AI Models:**

**- Language prediction models trained on the collected datasets**

**- Integration with AI-powered language translation models for improved accuracy**

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