

## **Software Requirements Specification (SRS)**

### **Language Translator Web Application (English to Hindi)**

#### **1. Introduction**

##### **Purpose:**

This document describes the requirements of an English to Hindi Language Translator Web Application using NLP.

##### **Scope:**

The system translates English text into Hindi using a neural machine translation model and provides results via a web interface.

#### **2. Overall Description**

The application is a standalone web-based system built using Python Flask and NLP models.

#### **3. Functional Requirements**

- Accept English text input
  - Translate text using NLP model
  - Display Hindi output
  - Handle errors and empty inputs
- 4. Non-Functional Requirements**
- Fast response time
  - High usability
  - Secure and reliable system

#### **5. Technologies Used**

- Python
- Flask
- Hugging Face NLP Model
- Render Deployment

#### **6. Conclusion**

The system provides accurate and efficient translation using modern NLP techniques.