# **Future Improvements for Translation Model**

## **1. Enhanced Translation Quality**

* Experiment with multiple LLM models (e.g.,Claude, Llama, Deepseek)
* Implement a confidence scoring system for translations

### **Quality Metrics**

* Expand evaluation metrics to include:
  + BERTScore (Semantic similarity using contextual embeddings)
  + COMET (Crosslingual Optimized Metric for Evaluation of Translation)
  + Human evaluation integration

## **2. Performance Optimizations (for batch translation)**

* Implement rate limiting and quota management
* Add cost optimization for API usage
* Implement smart retry mechanisms for failed translations
* Add support for fallback models when primary model is unavailable

## **3. Language Support**

* Add support for more languages
* Implement regional dialect support

## **4. User Experience**

* Implement user feedback collection
* Add support for custom terminology dictionaries
* Add API endpoints for external integration
* Implement webhook support for automated workflows
* Add support for different file formats (PDF, DOCX, etc.)