# Project Scope Statement

## AI-Powered LaTeX CV Generator

### **Project Description**

The AI-Powered LaTeX CV Generator project will develop a web application that allows users to create professional CVs using LaTeX templates through a simple user interface. The application will leverage AI to convert user-provided information into properly formatted LaTeX code, which will then be compiled into downloadable PDF documents.

## **Project Deliverables**

#### In Scope

## 1. Web Application

- Responsive user interface for data input
- Step-by-step form interface organized by CV sections
- Basic error checking and validation
- Mobile and desktop compatibility

#### 2. AI Integration

- Integration with free-tier AI API (OpenAI GPT-3.5-turbo, Claude, or equivalent)
- AI prompting system for converting form data to structured LaTeX
- Error handling for AI service limitations

#### 3. LaTeX Processing

- LaTeX code generation from AI output
- Server-side LaTeX compilation
- PDF generation
- PDF download functionality

## 4. Templates

- Three basic CV templates
- Template preview functionality

#### 5. User Experience

- Intuitive navigation between CV sections
- Clear instructions and examples for each input field
- Progress indicator
- Basic input validation

## 6. Documentation

- User guide
- Technical documentation
- API documentation

## Out of Scope

#### 1. User Accounts & Authentication

• User registration/login functionality

- Persistent storage of user information
- CV history and version control

#### 2. Advanced Features

- CV customization beyond template selection
- Cover letter generation
- Grammar checking or content suggestions
- ATS optimization analysis

#### 3. Enterprise Features

- Team/organization accounts
- Branded templates
- Analytics dashboard
- Integration with job boards or ATS systems

## 4. Extended Support

- Languages other than English
- Region-specific CV formats
- Custom template creation

### 5. Additional Export Formats

- DOCX, HTML, or other non-PDF formats
- Editable LaTeX source download

### Project Acceptance Criteria

- 1. Web application functions on major browsers (Chrome, Firefox, Safari, Edge)
- 2. Users can successfully input all necessary CV information through the interface
- 3. AI integration successfully converts user input to structured LaTeX code
- 4. PDF generation produces professional-quality documents
- 5. All three templates render correctly
- 6. Application meets performance criteria (CV generation in under 10 seconds)
- 7. Application passes security assessment
- 8. Documentation is complete and accurate

## **Project Constraints**

- 1. Development timeframe limited to 3 months for MVP
- 2. Budget constraints requiring use of free-tier AI services
- 3. Limited to English language for initial release
- 4. Server-side resources must be optimized for cost efficiency

### **Project Assumptions**

- 1. Users have basic internet connectivity and web browser access
- 2. Selected AI API will remain available with consistent functionality
- 3. LaTeX compilation tools will be compatible with server environment
- 4. Template designs will be sufficient for most user needs

5. Users will provide accurate information for their CVs

This scope statement defines the boundaries of the AI-Powered LaTeX CV Generator project. Any changes to the scope must be documented and approved through formal change control procedures.