

## Conversational Real Estate Assistant

**Project Title:** Developing a 24/7 Multilingual AI-powered Real Estate Assistant

**Objective:** This project aims to develop a conversational AI assistant designed to act as a **24/7 multilingual real estate agent**, providing automated yet intelligent support to buyers, sellers, and renters. The assistant will be trained on real estate FAQs and real-time market data through web search integration. It will streamline the property search process, handle initial inquiries, and leave human agents to focus on relationship-building and high-touch interactions.

**Project Overview:** Students will work in teams to develop a prototype of an AI-powered real estate assistant. The project will involve:

- **Conversational AI Development:** Implementing a conversational chatbot that understands and responds to real estate inquiries in multiple languages.
- **Web Search Integration:** Providing real-time access to market data, competitive listings, and neighborhood insights.
- **Legal and FAQ Training (Optional):** Training the model on real estate regulations, legal documents, and common buyer/seller questions.
- **User Data Personalization (Optional):** Capturing buyer preferences, budget constraints, and interaction history to provide tailored property recommendations.

The final deliverable will be a working POC demonstrating the AI assistant's ability to automate real estate inquiries, provide relevant property insights, and facilitate agent interactions.

### Expectations:

- Integrate an API for fetching real-time property listings from sources such as HotPads, Zillow, or MLS databases.
- **Optionally, train the assistant on legal documents and industry FAQs** to enhance its response accuracy.
- Implement a **multi-lingual model** to cater to diverse user demographics.
- Implement a **real-time search interface** that allows users to filter properties through the assistant.
- Deliver a final report, prototype demo, and presentation summarizing implementation, results, and next steps.

**Team Composition:** Each team will consist of **3-5 students** with expertise in AI, software development, and real estate market research. Tasks will be divided among team members to ensure efficient collaboration.

### Timeline (10 Weeks):

1. **Week 1-2: Research & Planning**
  - Define problem scope and study existing real estate AI solutions.

- Identify required APIs for web search integration and property listings.
- 2. **Week 3-4: Data Collection & Model Training**
  - Train the model on real estate FAQs (optional) and legal documents (optional).
  - Implement APIs for fetching real-time listings and market data.
- 3. **Week 5-6: AI Assistant Development**
  - Develop the **multi-lingual chatbot** capable of property searches and answering inquiries.
  - Optionally, implement **buyer preference tracking** for personalized recommendations.
- 4. **Week 7-8: Integration & Testing**
  - Integrate AI assistant with web search APIs for real-time market insights.
  - Test chatbot interactions, user data processing, and agent handoff mechanisms.
- 5. **Week 9-10: Finalization & Presentation**
  - Develop an interactive prototype.
  - Prepare final documentation, presentation, and a demo showcasing functionalities.

**Evaluation Criteria:**

- **Innovation & Feasibility:** Effectiveness of AI assistant in handling real estate queries.
- **Technical Implementation:** Quality of NLP, multilingual capabilities, and real-time data retrieval.
- **Documentation & Presentation:** Clarity, completeness, and demonstration of results.

This project is an opportunity for students to gain hands-on experience in AI-driven automation for the real estate sector, combining conversational AI, web search integration, and multilingual capabilities. The final prototype can serve as a foundation for further advancements in AI-driven property search platforms. G19 team will provide active supervision and guidance on all stages of the project.

**About Us ([www.g19studio.com](http://www.g19studio.com))**

**G19 Studio** is a cutting-edge GenAI consulting and implementation firm specializing in AI-driven solutions across various industries. With expertise in project management, UI/UX, data science, AI/ML engineering, full-stack development, cloud computing, and DevOps, we empower organizations to harness the power of Generative AI for innovation and growth. At G19 Studio, we are committed to shaping the future of AI by collaborating with students, startups, and enterprises to drive impactful technological advancements. We actively seek talented students for paid internships and full-time positions, offering hands-on experience in real-world AI projects and the opportunity to grow with us in the rapidly evolving tech landscape.