Gyaana-grha

"House of Knowledge" in Sanskrit (Gyaana = Knowledge, grha = Home)

Title	Gyaana-grha – Intelligent Neighborhood Matching for Learning & Growth
Subtitle	Lifestyle-Career Fit Engine for Students and Professionals

Executive Summary:

Objective

Design a Full-Stack Web Platform that Intelligently matches individuals to Neighborhoods Areas based on their Educational, Professional, Lifestyle, and Psychological needs—especially for Students and Early-Career Professionals. (lifestyle-driven neighborhood recommender system for students and early professionals).

Example: Many **Students** and **Young Professionals** relocate to **new cities for Education** or **Career opportunities**. However, choosing the **right neighborhood often becomes difficult** due to **lack of knowledge about the area**. This platform **aims to simplify** that process by **providing Personalized Neighborhood Suggestions** that match user profiles according to their needs and **Book Rents**.

NOTE: Transparency to the User is the KEY of this Project

Why It's Unique

Unlike Real-Estate Websites that focus on Property specs, Gyaana-grha analyzes real-world lifestyle indicators (e.g., access to coworking spaces, coaching centers, noise levels, job hubs, area accessibilities like Markets, Hospitals, etc.) and uses ML to personalize recommendations based on career goals and personal preferences.

Leveraging machine learning, it delivers personalized neighborhood recommendations aligned with individual career goals and lifestyle preferences.

Problem Space & Market Gaps

Problem Statement

Students and early-career professionals are often lost when relocating to cities				
1.	Settle in unsuitable neighborhoods.			
2.	Miss out on learning/career ecosystem synergies.			
3.	Suffer productivity, confidence, or financial strain.			

Evidence & Impact:

- 1. 68% of new job seekers feel their environment impacts focus and confidence (LinkedIn survey, 2023 (Got the short click in Idea from here of how to handle the situation and also some analysis of Idea)). NOTE: Environment Impact is main Factor
- 2. Real-estate platforms don't factor lifestyle/career relevance—just price, commute, or property size. (Idea Link for the Project Hint Idea)

Research Methodology

Primary Research

Conducted surveys with				
1.	35 undergrad/postgrad students			
2.	25 Early Professionals (0–3 YOE : Years Of Experience)			

Key Insi	Key Insights			
1.	1. 72% preferred neighborhoods with nearby coaching/study zones			
2.	53% felt isolated/lost after relocating			

Key Insights		
3.	60% lacked resources for career upskilling in new cities	

Secondary Research

Comparison and Gap Analysis				
1.	Compared features of platforms like NoBroker, 99acres, and UrbanClap			
2.	Found a gap in "Lifestyle-Neighborhood Fit" filtering and much more			

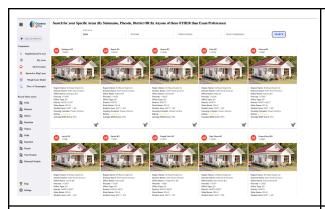
Proposed Solution

Platform Overview			
Name	Name Gyaana-grha (WEBSITE LINK)		
User Roles	Students, Professionals, Others.		

Core Modules

*Modules which are Uniques for the Website are Present in the Website made accordingly

Module	Description
Neighborhood Fit Area {Why: Assists students and early professionals in identifying educationally rich localities without manually searching for coaching hubs or residential clusters.}	Helps users discover the most suitable residential areas aligned with their academic goals—such as NEET, JEE, and other competitive examinations. Users provide their state name, district, pincode, and exam preference through the frontend interface. This input is transmitted to the backend, where a dynamic API integration with data.gov.in retrieves verified geographic and administrative datasets including postal information, division details, and local infrastructure. The backend processes this location data and



maps it against predefined static educational tags (like NEET/JEE zones). The resulting enriched dataset—consisting of post office divisions, locality names, and geo coordinates—is returned to the frontend. The client side renders this data as informative property cards, showcasing regions that are statistically favorable for student housing, coaching proximity, and learning environments.

MGPT AI

{Why: Designed **to support new users in** understanding and utilizing **the platform to meet** their **specific requirements efficiently. }**



The system integrates AI through Retrieval-Augmented Generation (RAG) models and LangChain framework to interact with the website, enabling intelligent recommendation of the most suitable residential areas based on user-defined educational needs and location preferences.

Hypothesis:

If a user inputs their current address for Stay along with the type of competitive exam they are preparing for (e.g., NEET, JEE), then the Al-powered system—leveraging RAG and LangChain—will analyze the query and respond with a ranked list of suitable areas, including estimated pricing, housing availability, and educational relevance, thereby assisting in data-informed relocation decisions.

Interactive Map Layer (Conditions Nearby) (Use Google Maps to visually overlay lifestyle data)

{Why: Helps users visually understand lifestyle compatibility.}



- 1. **Study Zones:** Libraries, quiet cafes, and community study spaces.
- Coaching/Training Centers: Based on academic focus (e.g., UPSC, GATE, Design).
- 3. **Lifestyle Preferences:** Green cover, fitness centers, yoga studios.
- 4. **Traffic & Commute Time:** Distance from work/college hubs.
- 5. **Convenience Layer:** Supermarkets, hospitals, restaurants.

Smart Nearby Recommendations

(Why: Adds practical, on-ground value, especially for newcomers or non-locals.)

- 1. Libraries near residences
- 2. **Group study hubs** or community clubs
- 3. Night-time safety rating
- 4. Public transport availability

Mentorship or Peer Community Integration {Why: Builds community + fosters local connection (goes beyond just housing).}	 Let users opt-in to join local peer groups (based on location + domain: tech, UPSC, design, etc.) Feature a "Local Mentors" section with verified profiles.
Neighborhood Analytics Dashboard {Why: Offers transparency and data confidence.}	For each area: a. Avg. rent prices b. Student-friendliness score c. Walkability & public transit rating d. Wi-Fi availability score
Personalized Path Recommendations {Why: Align life + location = maximized growth.}	1. Based on career goal input (e.g., "Crack NEET", "Get into FAANG") a. Area best-suited for that journey b. Resources (nearby coaching, like-minded community) c. Housing (hostels, PGs, rentals)
ML-Based Future Value Score {Why: Encourages long-term thinking and aligns with TruState's valuation tools.}	Predict future potential of an area (Coaching + Libraries + rents +) Helps users "buy" or "stay" smartly.
Micro-Services for TruState Business Add-ons {Why: Turns lifestyle data into a business-ready toolkit for TruState and its vendors.}	 Tenant Profiling for Landlords: Use NeighborFit's scoring to recommend preferred tenants for PGs/Hostels. TruState Property Intelligence: Partner with TruState to overlay micro-location property valuations with lifestyle data. "Area Onboarding" Packages: Include verified rentals, movers, tiffin services, and 24/7 security in select areas.

Unique Selling Points (USPs) (Some are ADD-ONS to it so it may or may not be in web application):

Present	Fully supported
Partially	Partially supported
NA	Not available

USP / Module	Description	GyaanaGrha + TruEstate	NoBroker	MagicBricks	99acres
Education x Neighborhood	ML model suggests localities aligned with	Present	NA	NA	NA

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Match	learning goals (e.g., near libraries, coaching hubs, coworking spaces)				
Contribution-Ba sed Token System	CareerKarma tokens earned by learning/contribution, redeemable for premium coaching & study access	Present	NA	NA	NA
Focus x Smart Study Zones	Recommends study-conducive spaces (libraries, cafes) using live crowd/noise heatmaps	Present	NA	NA	NA
Skills x ZK Token Validation	Tokens issued for learning achievements, secured with Blockchain-style zero-knowledge validation	Present	NA	NA	NA
Al x Property Matchmaking	Suggests homes based on lifestyle, career goals, life-stage (not just price or BHK size)	Present	Present	Partially	Partially
Geo-Lifestyle Heatmaps	Real-time overlay of green zones, public spaces, noise, walkability, education access	Present	Present	NA	NA
MGPT AI	Uses LangChain + RAG to answer queries like: "Best area for JEE near Delhi with metro access?"	Present	NA	NA	NA
Interactive Map Layer	Google Maps overlays for libraries, coaching zones, traffic, hospitals, cafes, safety ratings	Present	Present	Partially	Partially
Smart Nearby Recommendati ons	Dynamically lists nearby study spaces, transport, peer clubs, safety info	Present	Present	NA	NA
Mentorship / Peer Community	Connects users to verified mentors & study groups based on exam focus and locality	Present	Present	NA	NA
Neighborhood Analytics Dashboard	Rent price, walkability, student score, transit rating, Wi-Fi coverage	Present	Present	Partially	Partially
Personalized Path	Based on user goal (e.g., "Get into IIT"), shows	Present	Present	NA	NA
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Recommendati ons	best-fit areas + nearby coaching + housing options				
ML-Based Future Value Score	Predicts growth potential of a locality (jobs, education, infrastructure)	Present	Present	NA	Present (price trends only)
TruEstate Business Add-ons	API microservices for PG landlords, onboarding packs (verified hostels, security, movers)	Present	Present	NA	NA

Architecture & System Design:

Component	Technology	Description	
Client	Vite + React	Frontend framework for building fast, modular, and reactive UI	
Server	Express + Node.js	Backend framework handling API routing, request handling, and business logic	
Database (DB)	MongoDB (NoSQL)	Stores user input, location data, and prompt history in flexible document format	
ML Microservice	Python (planned) – LightGBM / SageMaker etc.	Designed for job & neighborhood matching based on career goals and preferences.	

Future Scope:

	1.	Mobile app using React Native
	2.	Voice-based interaction for visually impaired users
Ī	3.	Cross-language support

Conclusion:

A Next-Gen Career & Living Intelligence Platform

Gyaana-grha, at its core, **reimagines the career** and **residential journey of students** and **early professionals**—not just as a **relocation** or **job-finding task**, but as a holistic **life-planning experience**.

Unlike conventional real-estate or job portals, NeighborFit acts as a lifestyle compass, blending location intelligence, educational psychology, and Al-powered personalization to guide individuals through crucial life transitions. Whether it's finding the right neighborhood for NEET/JEE preparation, accessing local mentorship, or living in a study-friendly environment—GyaanaGrha makes every decision data-driven, smart, and human-centric.

GyaanaGrha is not just a product—it's an ecosystem that connects where people live, how they grow, and who they become. By blending AI, data science, community insights, and behavioral psychology, the platform transforms the way early-career individuals navigate their future.

GyaanaGrha has the potential to become a category-defining solution for life+career alignment, and represents a bold step toward democratizing smart living for aspirational India.