

AI-Based Future Counselling Website

1. Introduction

The **AI-Based Future Counselling Website** is an intelligent web platform designed to guide students and graduates in making informed career decisions. By combining structured assessments, user profiling, and AI-driven recommendations, the system provides personalized career pathways aligned with users' skills, interests, academic background, and market trends.

The platform aims to replace or augment traditional counselling with a scalable, data-driven, and unbiased solution accessible anytime.

2. Objectives

- Provide personalized, AI-driven career counselling
 - Help students and graduates identify suitable career paths
 - Reduce confusion and indecision regarding future careers
 - Automate and scale the counselling process
 - Offer actionable guidance (skills to learn, certifications, roadmap)
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3. Target Users

- High school students (career exploration)
 - University students (career alignment)
 - Fresh graduates (career specialization)
 - Career switchers (future enhancement – optional)
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4. Core Features

4.1 User Authentication

- Sign up (Email / Google / LinkedIn – optional)
- Login
- Password recovery

4.2 User Onboarding (Mandatory on First Signup)

Onboarding is a guided, multi-step flow to understand the user before recommendations.

Onboarding Data Collected:

- Education level (Intermediate / Undergraduate / Graduate)

- Field of study (e.g., Computer Science)
- Institution & graduation year
- Current status (Student / Graduate / Working)
- Basic interests (Technology, Design, Business, Research, etc.)
- Preferred work style (Remote / Office / Hybrid)
- Country / Region (for market relevance)

Progress indicator shown (Step 1 of 5).

5. User Dashboard UX

5.1 Landing After Login

After successful login, the user lands on the **Main Dashboard**.

5.2 Dashboard Layout

Sidebar (Left):

- Dashboard
- Career Quiz
- AI Recommendations
- Career Roadmap
- Skill Gap Analysis
- Saved Careers
- Profile Settings
- Logout

Top Bar:

- User name
- Profile completeness indicator
- Notifications

Main Content Area:

Analytics Cards (Top Section)

- Profile Completion %
- Quiz Status (Not Started / In Progress / Completed)
- Recommended Career Paths (Count)
- Skill Readiness Score

Center CTA Section

A large, visually prominent card:

"Start Career Assessment Quiz"

- Subtitle: *"Discover your ideal career path based on your skills and interests"*
- Estimated time (e.g., 12–15 minutes)

If quiz already started:

- "Continue Quiz"

If completed:

- "View AI Recommendations"
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6. Career Assessment Quiz - UX Design

6.1 Quiz Structure

The quiz is adaptive and divided into sections:

1. Background Verification
2. Interest Mapping
3. Skill Assessment
4. Cognitive & Problem-Solving Style
5. Career Preferences

Each section shows:

- Progress bar
 - Question count
 - Save & Exit option
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7. UX Flow: Computer Science Graduate

7.1 Entry Point

User clicks "Start Quiz" from dashboard.

7.2 Section 1: Academic Background (Auto-prefilled)

UX Behavior:

- Most data pre-filled from onboarding
- Editable if needed

Sample Questions:

- Degree: BS Computer Science
- Graduation Year
- GPA / Grade (Optional)
- Key subjects studied:
 - Data Structures
 - Databases
 - Operating Systems
 - AI / ML
 - Software Engineering

7.3 Section 2: Interest Mapping

UX Style:

- Card-based selections
- Visual icons per domain

Sample Questions:

- Which activities excite you the most?
 - Building applications
 - Solving algorithms
 - Working with data
 - Designing systems
 - Research & innovation
- Which domains interest you?
 - Web Development
 - Mobile Apps
 - Artificial Intelligence
 - Cyber Security
 - Game Development
 - Cloud & DevOps

7.4 Section 3: Skill Assessment

UX Style:

- Self-rating sliders (Beginner → Expert)

Sample Skills:

- Programming Languages:
 - Python
 - Java
 - JavaScript
 - C++
- Frameworks:
 - Django / Flask
 - React
- Databases:
 - MySQL / PostgreSQL
- Concepts:
 - OOP
 - DSA
 - APIs

Optional: Upload GitHub / Portfolio link.

7.5 Section 4: Problem-Solving & Work Style

UX Style:

- Scenario-based MCQs

Sample Questions:

- You enjoy tasks that are:
 - Structured and planned
 - Exploratory and experimental
 - You prefer working:
 - Alone
 - In a team
 - When solving a problem, you:
 - Focus on logic first
 - Focus on user experience first
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7.6 Section 5: Career Preferences

UX Style:

- Toggle + ranking

Sample Questions:

- Preferred career goal:
 - High-paying job
 - Research-based career
 - Startup / Entrepreneurship
 - Work-life balance
 - Preferred industry:
 - Tech companies
 - Freelancing
 - Government
 - Academia
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8. AI Recommendation Output (Post-Quiz UX)

8.1 Results Page

Top Section:

- Personalized greeting
- Overall Career Match Score

Recommended Career Cards:

Each card contains:

- Career Title (e.g., Backend Software Engineer)

- Match Percentage
 - Why this suits you (AI explanation)
 - Required Skills
 - Average Salary (Region-based)
 - Demand Trend (Graph)
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8.2 Career Detail View

Clicking a career opens a detailed page:

- Role overview
 - Daily responsibilities
 - Skill gap analysis (Your skills vs Required)
 - Learning roadmap (Beginner → Advanced)
 - Suggested courses & certifications
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9. Admin Panel Features

9.1 Admin Roles

- Super Admin
- Content Admin

9.2 Admin Capabilities

- Manage users
 - Manage quiz questions
 - Manage career paths
 - View analytics & usage stats
 - AI model tuning (weights, scoring)
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10. AI & Technical Overview (High-Level)

- NLP-based profiling
 - ML-based career recommendation engine
 - Rule + ML hybrid scoring
 - Continuous learning from user feedback
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11. Future Enhancements

- Resume analysis
- Job market integration (LinkedIn, Indeed)
- Mentor matching
- Chat-based AI counsellor

- Premium personalized sessions
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12. Success Metrics

- Quiz completion rate
 - Recommendation acceptance rate
 - User satisfaction score
 - Repeat visits
 - Career roadmap engagement
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