

Solution Challenge



Team Details

a. Team name: Visionary Minds

b. Team leader name: Aditya Bhalerao

c. Problem Statement: “SDG 1: NO POVERTY”

Rural youth face limited access to job opportunities and skill development, hindering their economic self-sufficiency, necessitating market-driven solutions.



"Globally, over 700 million people, or 10% of the world's population, lived in extreme poverty in 2015."
- World Bank.

Poverty is not just about income.
It includes lack of access to education, healthcare, sanitation, and other essential services

India's youth unemployment rate stood at 7.11 percent in 2022."
Trading Economics.

- Poverty is a state of severe deprivation, lacking the basic necessities for a decent standard of living.
- Addressing poverty requires multifaceted strategies tackling its root causes, including lack of opportunity, and systemic barriers.
- The root cause of poverty that we aim to tackle is lack of opportunity, guidance and skills.
- Limited access to information and career counseling in rural areas prevents youth from understanding available opportunities and skill requirements.
- Lack of relevant skills makes rural youth unemployable in today's competitive job market.



Skill Mitra

- Skill Mitra is a user-friendly web platform that provides personalized skill recommendations based on real-time market data.
- “Loss Aversion” and “Positive Reinforcement” are the principles of psychology that are inculcated in order to gamify the learning process and ensure sincerity at learning.
- Cutting-edge AI analyzes real-time market trends to predict the top 5 highest Return on Investment skills for each user.
- Provides data-driven guidance to the user on what skills to pursue.
- Integrated tutorials for selected skills are available directly on the platform.
- Structured learning paths are provided with comprehensive content.
- Drives economic self-sufficiency and reduces poverty.
- User-friendly web interface is provided to ease the learning.





Opportunities and Differentiators

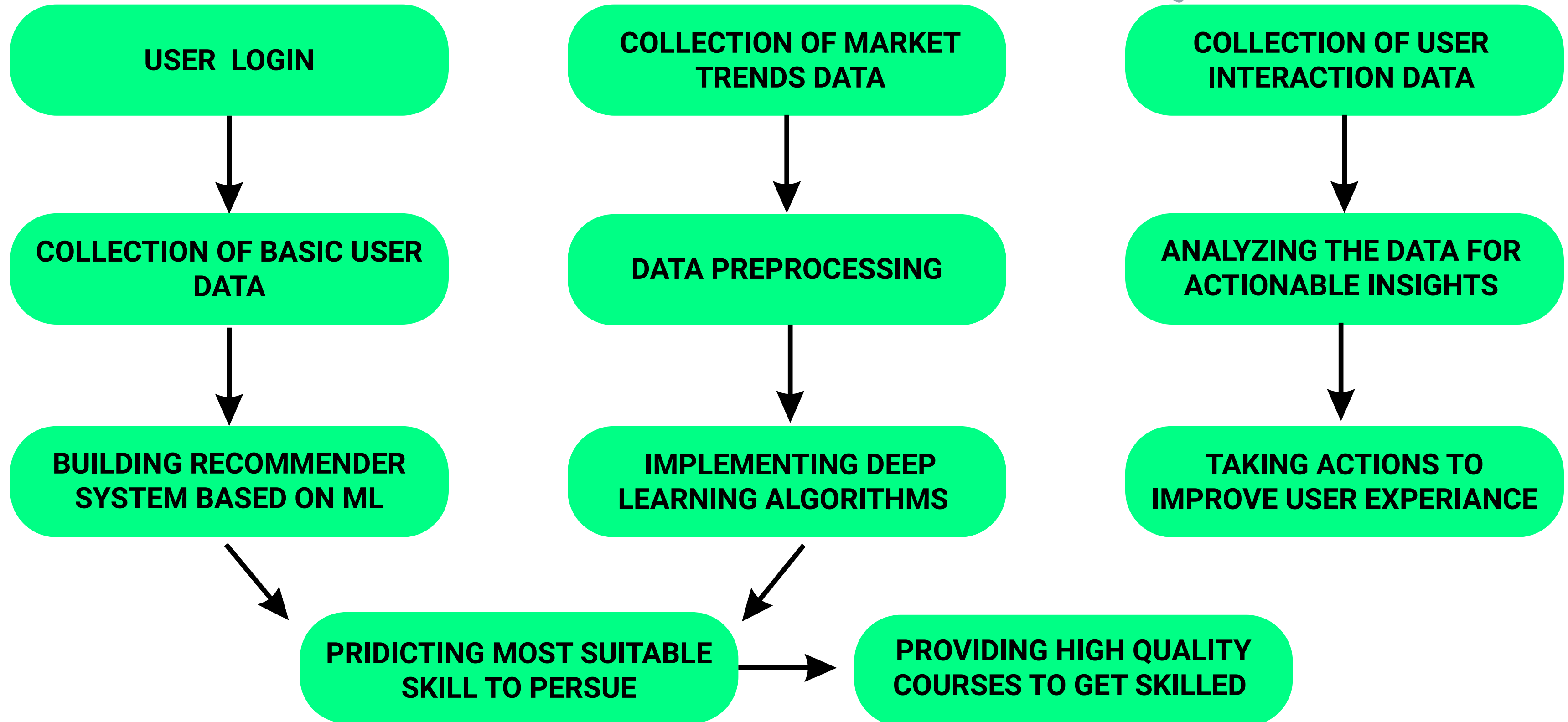
- Skill Mitra leverages cutting-edge AI technology to analyze real-time market trends.
- It provides dynamic and personalized ROI predictions for specific skills.
- Focus on tangible ROI is a key differentiator. It's not just about learning, it's about maximizing financial return.
- Unlike subscription-based platforms or one-time payment courses, a unique refundable fee structure is proposed.
- The proposed platform combines career guidance (skill prediction) with skill development (tutorials) in a single, seamless experience.
- This eliminates the need for users to navigate multiple platforms.
- The core goal of this solution is to empower users to achieve financial independence.
- This sets it apart from platforms that primarily focus on knowledge acquisition.

Features as of User Perspective



- The user logs into the platform using basic credentials such as username and mobile number or email ID.
- The user provides general information, including education level, interests, location, age, work experience, current job role, and career aspirations.
- Based on the provided details, an AI-driven analysis is performed using real-time market data to identify the top five high-return skills the user should acquire for maximum career growth.
- Upon selecting a recommended skill, the user is redirected to a dedicated learning module designed to offer structured tutorials at a minimal enrollment cost.
- If the course duration is 10 months, the user receives a proportional cashback (1/10th of the enrollment fee) upon successful completion of each month's module.
- By the end of the course, the user will have acquired industry-relevant skills, ensuring enhanced career opportunities and a high return on investment.

Process Flow Diagram



Technologies to be used



- Skill Mitra leverages cutting-edge AI to optimize career guidance and learning pathways.
- Natural Language Processing (NLP) extracts insights from user profiles and preferences, enabling personalized recommendations.
- K-Means Clustering and DBSCAN segment users based on career aspirations and existing skills, tailoring their learning paths.
- Neural Prophets and LSTM models predict emerging skill demands, ensuring users stay ahead of market trends.
- Neural networks dynamically refine suggestions as job markets evolve, ensuring real-time adaptation.
- Google Analytics tracks user behavior, helping us enhance platform usability and engagement.
- Google Workspace supports collaboration, while Google Colab powers AI model training using TensorFlow for deep learning applications.

Snapshots of MVP



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AI Assistance

Empowering Careers, Enabling Growth

Your future starts here. Let's understand your professional journey and goals.

Career Information Form

Age:

Education Level:

Work Experience (in years):

Current Job Title/Role:

Location (Village, City, State):

Career Goals (Job required, job switch, educational):

Submit

Our Mission

At CareerPath Co., we are committed to empowering individuals with personalized career guidance and opportunities through modern tools and technology.

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Recommended Job Opportunities

Based on your profile, here are some jobs that might interest you.

Frontend Developer - React

Company: TechNova Pvt. Ltd.

Location: Pune, Maharashtra

Looking for a skilled React developer with 1-3 years experience.

Apply Now

Junior Full Stack Engineer

Company: InnoSoft Tech

Location: Remote

Work with Nodejs, Express, and MongoDB in an agile environment.

Apply Now

Software Developer Intern

Company: StartX Solutions

Location: Nagpur, Maharashtra

6-month paid internship for freshers with good JavaScript knowledge.

Apply Now

UI/UX Designer

Company: DesignCraft

Location: Hyderabad, Telangana

Creative UI/UX designer needed for web/mobile apps.

Apply Now

Technical Support Executive

Company: GlobalSys IT

Location: Mumbai, Maharashtra

Support role for handling software queries, ideal for CS grads.

Apply Now

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Future Development



- The future development plan for Skill Mitra includes analyzing market gaps to identify potential business opportunities.
- Recommending profitable and scalable venture ideas.
- Providing step-by-step guidance from startup to sustainability.
- Connecting rural women to skill development programs and mentorship.
- Highlighting funding options, cost management, and revenue strategies.
- Empowering rural women to achieve financial independence through entrepreneurship.

Important Links



- Git hub link - https://github.com/Karuna-j2409/Google-Solution_Visionary-Minds
- MVP link - <https://skill-mitra.onrender.com/>
- Demo Video Link - <https://youtu.be/odHOP3db7zc>



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Thank you

