

CAREER COMPASS AI

TEAM - SPARTANS

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INSPIRATION

Choosing a career is overwhelming. Students often lack proper guidance, real-world exposure, and access to up-to-date industry trends. Traditional career counseling methods are often outdated and generic. We wanted to leverage AI to create a smarter, more personalized, and data-driven career exploration platform—one that empowers students with real insights and hands-on experience.

GOAL

Career Compass AI is an AI-powered career exploration platform that:

- ✓ **Assesses students' interests and strengths through interactive AI-driven suggestions.**
- ✓ **Analyzes real-time industry trends from platforms like Reddit and Medium.**
- ✓ **Provides hands-on career simulations and domain-specific challenges.**
- ✓ **Uses AI-based recommendations to match students with the best career paths.**

TECHNOLOGY

We combined multiple technologies to make Career Compass AI intelligent, dynamic, and user-friendly:

- ✓ **Frontend:** React, TypeScript, Tailwind CSS for a modern and responsive UI.
- ✓ **Backend:** Flask API to handle AI processing and data management.
- ✓ **AI Models:** GPT-3.5 & LLaMA 3 for generating personalized career insights.
- ✓ **Database:** ChromaDB for efficient storage and retrieval of insights.
- ✓ **Web Scraping & APIs:** To analyze the latest career trends from Reddit, Medium, and more.

CHALLENGES

- ✓ Processing real-time career trends while ensuring data accuracy.
- ✓ Optimizing AI recommendations for personalized and relevant career matches.
- ✓ Ensuring seamless frontend-backend integration for a smooth user experience.
- ✓ Creating engaging and meaningful simulations for hands-on career exposure.

ACCOMPLISHMENTS

- ✓ Successfully built an AI-driven platform that personalizes career guidance.
- ✓ Integrated real-time industry trend analysis to provide up-to-date insights.
- ✓ Developed a modern, responsive UI using React, TypeScript, and Tailwind CSS.
- ✓ Created hands-on simulations to give students practical exposure before choosing a career.

FUTURE SCOPE

- ✓ **Expanding career simulations to cover more industries.**
- ✓ **Enhancing AI recommendations with deeper machine learning insights.**
- ✓ **Adding mentorship & networking features to connect students with professionals.**
- ✓ **Launching a mobile app for greater accessibility.**
- ✓ **Gamification & AI-driven career paths to make learning fun and immersive.**

Career Compass AI is just the beginning! We're redefining career exploration with AI-powered insights, real-time trend analysis, and interactive simulations. The future of career guidance starts here!

THANK YOU!