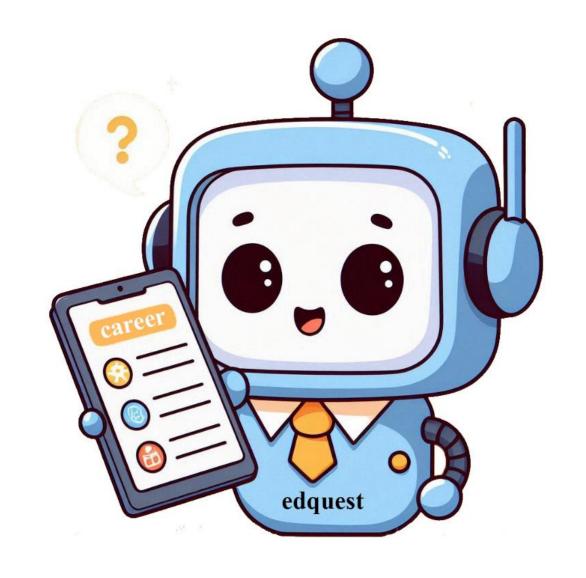
### **PATHFINDER:**

CAREER
GUIDANCE
CHATBOT

**DEVELOPED BY:** 

Team Lembda



# Problem Statement

Many individuals struggle to find clear and personalized career guidance that aligns with their qualifications and aspirations. The challenge is to create a chatbot that not only understands user profiles but also provides tailored career advice, leveraging up-to-date online resources.



### **Product Overview**

PathFinder is a state-of-the-art career guidance chatbot designed to assist users in making informed decisions about their careers. Utilizing advanced generative AI, PathFinder offers a friendly and interactive experience, engaging users with personalized advice based on their qualifications, interests, and career aspirations. From job searches to educational opportunities and professional development, PathFinder helps users pave their way to a successful career.

### Goals

1

Develop an Al-driven chatbot that can provide customized career guidance.

2

Incorporate interactive tools for building LinkedIn profiles and resumes.

3

Use real-time data to suggest educational courses, job opportunities, and internships.

4

Ensure the chatbot interface is user-friendly, accessible, and engaging.

## **Tools Required**

To develop the "PathFinder - Career Guidance Chatbot," the following tools are required:

**Gradio**: A Python library for quickly creating UIs for machine learning models, used here to create the chat interface allowing users to input messages and receive responses interactively.

**Google GenerativeAI**: A library for accessing generative AI models from Google, utilized to power the chatbot's conversational abilities and text generation capabilities.

**API Key**: Obtain an API key from Google GenerativeAI to configure and access their models for text generation.

# **Target Audience**

The primary audience includes recent graduates, young professionals, and individuals seeking career transitions, particularly those who are exploring new opportunities or need guidance to advance in their careers.



### **User Research**

Research focused on understanding the needs of individuals at various career stages. Surveys and interviews revealed that users seek guidance that is directly relevant to their skills and goals but often find generic advice through traditional career services.

**Results:** 65% of people wanted a service like this chatbot.

#### Questions in the survey included -

Did you need find the current status of online available information regarding career useful? Will you appreciate a chatbot which can be used for carrer guidance?



# **Empathy Map**

Says	Thinks	Does	Feels
"I'm not sure what job fits my skills."	"What if I make the wrong career choice?"	Searches for job listings and career tips online.	Uncertain about the future.
"I need a better resume."	"I want to stand out to employers."	Attends resume- building workshops.	Anxious about job applications.
"How can I improve my skills?"	"Are there any courses that can boost my career?"	Enrolls in online courses.	Motivated to learn and grow.

### **Pain Points**

- Lack of personalized career advice tailored to individual skills and aspirations.
- Difficulty in navigating the vast amount of career information online.
- Uncertainty about which educational paths or certifications will benefit their career the most.
- Overwhelm from the process of building professional documents like resumes and LinkedIn profiles.



# Unique Features of the Chatbot

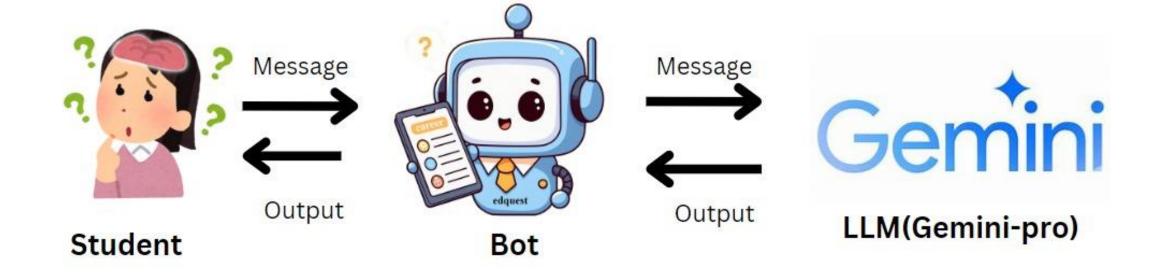


Personalized Career Guidance: The chatbot engages users in a structured conversation to gather information about their country, qualifications, interests, and career aspirations. It uses this information to provide tailored advice.

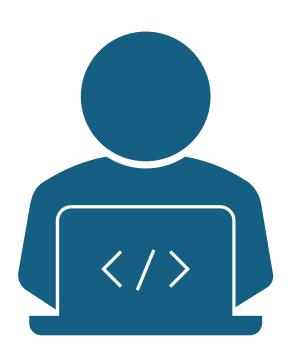


Multi-faceted Advice Options:
Based on user inputs, the chatbot offers options to find jobs, pursue further studies, enroll in certificate courses, or explore internships, adapting its responses accordingly.

# **Architecture Diagram**



### How it works via code



- The script begins by installing necessary libraries (gradio for creating web interfaces, google-generativeai for accessing Google's AI models) and importing them, then we setup api key.
- Then we set parameters like temp etc.
- Then we define chatbot model.
- Finally, the script initializes an empty history list and creates a Gradio interface. This interface allows users to interact with the chatbot through a web page.

#### **Screenshots**

