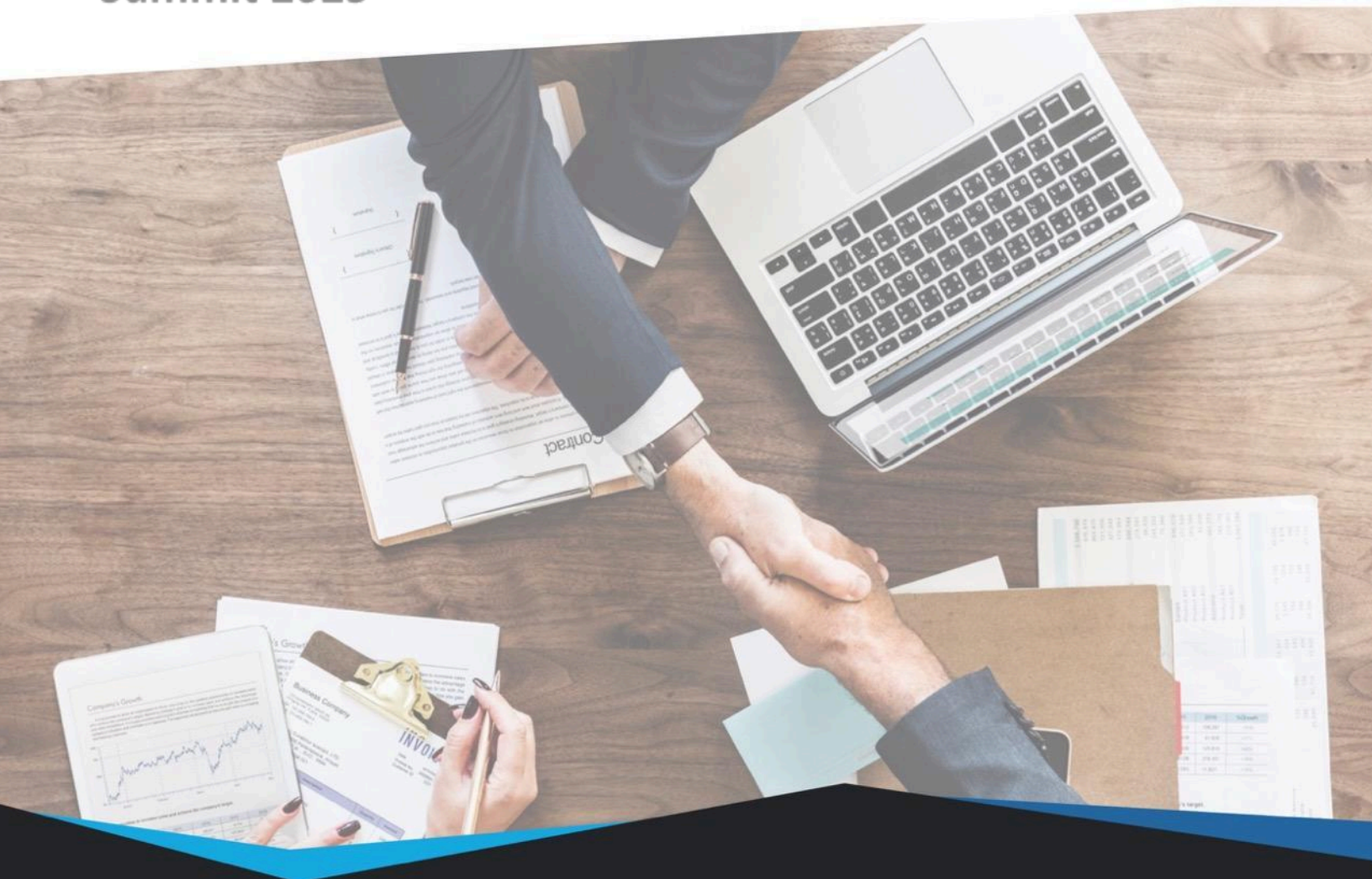




AI-POWERED PDF RESUME ANALYZER

AI-Based Resume Analysis and Scoring System | Digital
Summit 2025



Goal

In this hands-on lab, you will build an **AI-powered Resume Analyzer** that allows users to upload a resume and receive instant, AI-generated insights. The application uses **Google Gemini AI** to analyze resume content, identify key skills and experience, and generate a **resume score with improvement suggestions**. By the end of this lab, you will understand how to integrate **Google Generative AI (Gemini API)**, design prompts for AI-based analysis, and build a simple web interface that converts **unstructured resume data into structured insights**.

Pre-Requisites

- Node.js
- Google account (for API Key)

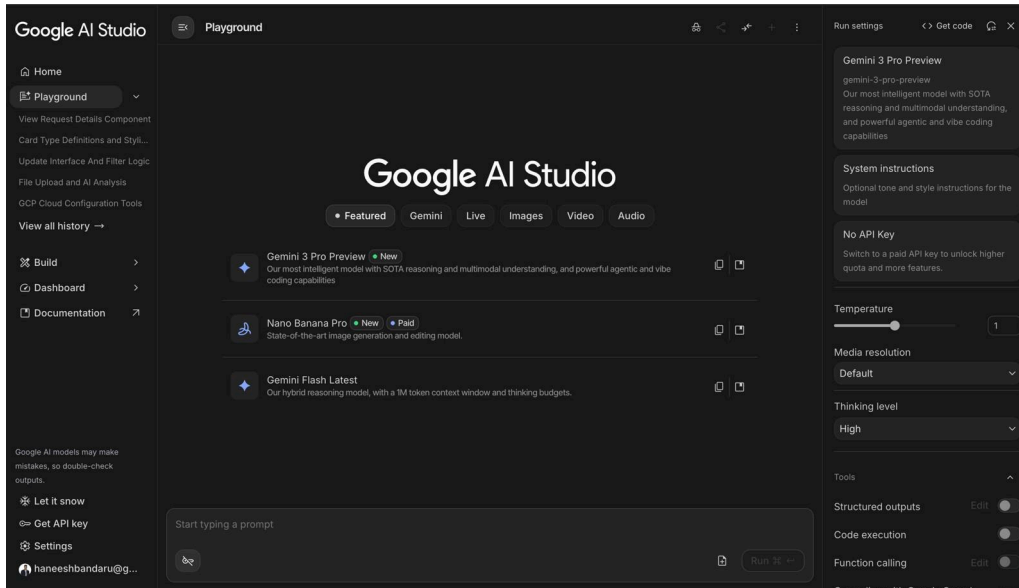
Technology Involved

1. React
2. Google Gemini AI

Lab Steps

Step 1: Get Google Gemini API Key

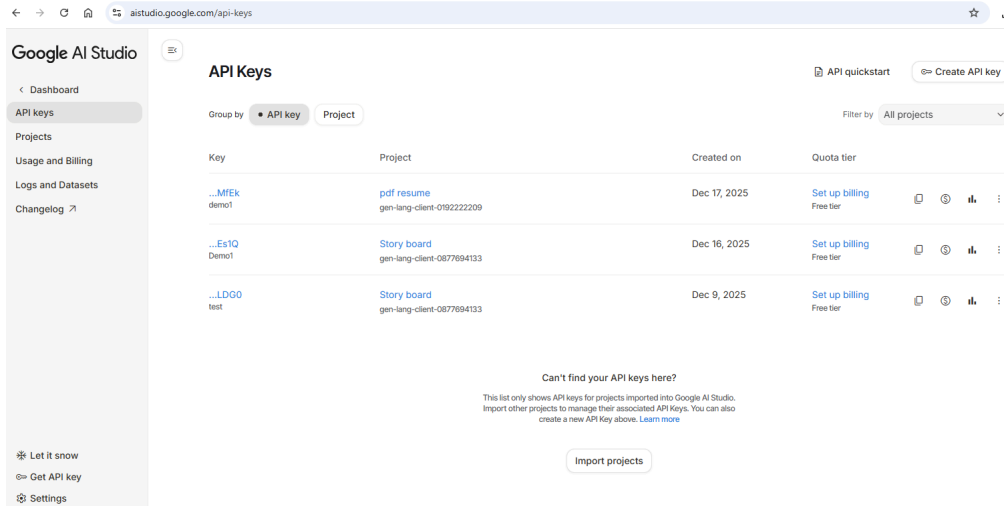
1. Go to Google AI Studio



2. Create / select a project

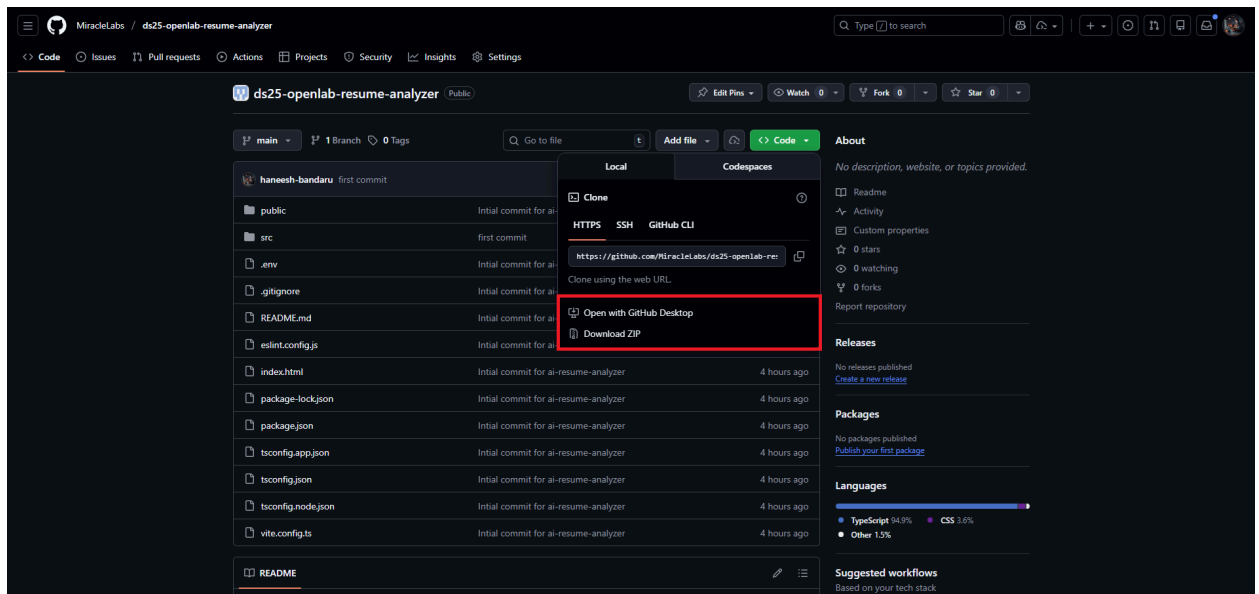
3. Generate an **API Key**

4. Copy the key



Step 2: Clone the Repository

- git clone or download as zip :[Link](#)



- cd ds25-openlab-resume-analyzer

Step 3: Install Dependencies

- npm install

Step 4: Configure Environment Variables

Create a file named **.env** in the project root:

- VITE_API_KEY=your_google_gemini_api_key

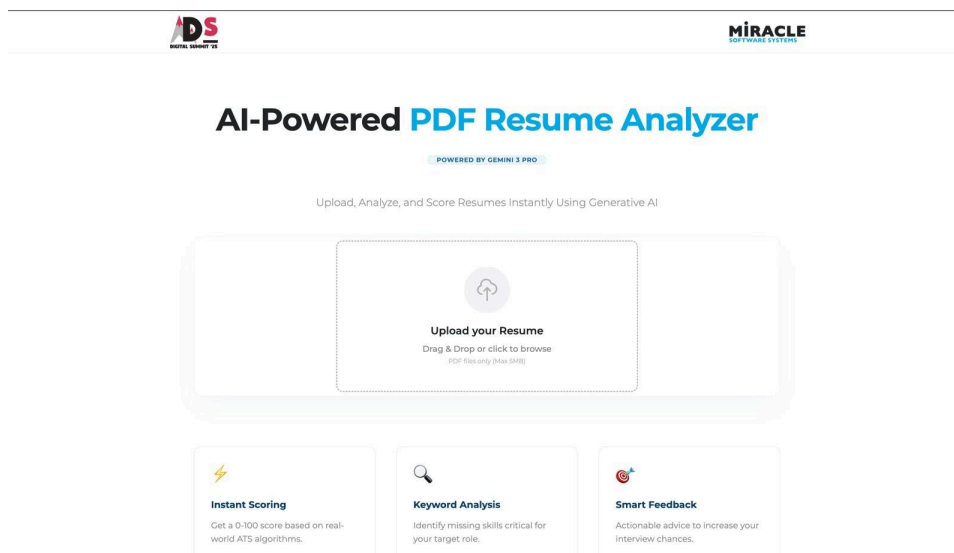
Step 5: Run the Application

- npm run dev

Step 6: Open in Browser

- Local URL: http://localhost:5173

Open this in your browser.



Step 7: Test the Application

- Upload a **your resume PDF**
- Click **Analyze Resume**
- Let the AI process your resume
- **View:**
 - Resume's ATS Score
 - Parsability
 - Keyword match
 - Detailed analysis of your resume containing feedback.

Analysis Overview

DOCUMENT PREVIEW

JOHN DOE
Full Stack Developer
Andhra Pradesh, India | +91 9876543210 | johndoe@gmail.com

PROFESSIONAL SUMMARY
Front-End Developer with 1 year of hands-on experience. Proficient in React Js and JavaScript, I specialize in creating sleek, user-friendly interfaces. My unique edge lies in blending front-end development with UI/UX skills, ensuring seamless and visually appealing applications. My career goal is to craft simple yet elegant solutions that enhance user experiences. Eager to contribute my skills and creativity to dynamic teams, I thrive on staying current with the latest technologies in the fast-evolving world of web development.

EXPERIENCE

Software Intern May 2023 – June 2023
Miracle Software Systems

Web developer Intern July 2022 – September 2022
Sparks foundation

SKILLS

Next Js | React Js | Angular Js | Javascript
HTML | CSS | Java | JDBC | Spring Boot
Android Development | Database Management Systems
AppSheet | Material UI | Prime Ng | Vanta js

Overall ATS Score 35 /100
Needs Work

Parsability 60%
Layout may confuse some ATS.

Keyword Match 55%
Critical keywords missing.

All Feedback 60 | Content 3 | Keywords 2 | Formatting 5

Missing Critical Keywords HIGH IMPACT
Your resume is missing 14 top keywords found in typical job descriptions for this role. Adding these can boost your score significantly.

RECOMMENDED KEYWORDS:

+ TypeScript + Redux + Git + Version Control + RESTful APIs + Node.js + SQL
+ Unit Testing + Jest + CI/CD + Agile + Scrum + Responsive Design
+ Cross-browser Compatibility

Formatting Issue MEDIUM IMPACT
Photo included [can confuse older ATS parsers].

Formatting Issue MEDIUM IMPACT
Icons used in header and contact section.

Hope you enjoyed analysing your resume!