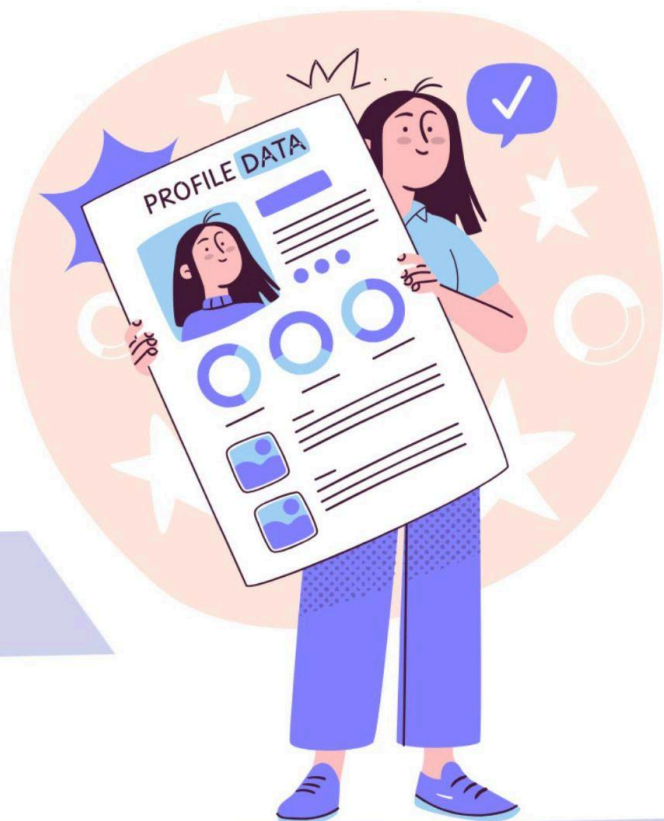


Angular Generative AI

Building an intelligent CV enhancer with Google Gemini



Abdelfattah Ragab

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Introduction

Welcome to the book “Angular Generative AI: Building an intelligent CV enhancer with Google Gemini”.

In this book, I explain how to build an intelligent CV enhancer with Google Gemini.

You will learn how to send prompts to Google Gemini and get answers to your questions.

You will learn how to upload files to the Google AI file manager and attach those files to your prompts.

We will start from scratch and build everything together.

By the end of this book, you will be able to use generative AI in your Angular application and tackle all kinds of scenarios.

Let us get started.

What is Generative AI?

Generative AI refers to a branch of artificial intelligence that focuses on creating new content based on existing data. This technology uses deep learning models to generate high-quality results that can include text, images, audio and even code.

What is Google Gemini?

Google Gemini is an advanced AI model developed by Google to boost creativity and productivity through its chatbot and large language model (LLM) capabilities. It offers users assistance with various tasks, including writing, planning and learning.

Get a Gemini API key

Visit [Google AI for Developers](#) and get a Gemini API key

Preview

The application allows users to upload their CV to Gemini and receive feedback on what improvements they should make to be attractive to potential employers.

Enhance your CV



Choose

Send

Enhance your CV



 **Liam-CV.pdf**

Send

Enhance your CV



↑ Liam-CV.pdf

Send

Enhance your CV

Here are some improvements you can make to your CV to make it more appealing to potential employers:

- **Quantify your achievements:** Instead of simply stating that you maintained a high picking/packing speed, provide specific numbers. For example, you could say "Consistently maintained picking/packing speeds in the 98th percentile, exceeding the company average by 10%."
- **Use action verbs:** Use strong action verbs to describe your responsibilities and accomplishments. For example, instead of saying "Performed all warehouse laborer duties," you could say "Managed all aspects of warehouse operations, including packing, picking, counting, record keeping, and maintaining a clean area."
- **Highlight your skills:** Make sure to include a section highlighting your relevant skills, such as inventory management, warehouse sanitation, and operating heavy machinery.
- **Use keywords:** Research common keywords used in job descriptions for the positions you are interested in and incorporate them into your CV.
- **Tailor your CV:** When applying for a specific job, tailor your CV to match the requirements listed in the job description.
- **Proofread carefully:** Before submitting your CV, make sure to proofread it

Choose

Send

Create the Backend

I will create a Nestjs application that will be our backend. It will be responsible for connecting to the Gemini server.

```
nest new resume-be
```

Open the project folder in Visual Studio Code.

Use your API key

Create a new **.env** file and add a new entry for the api key as follows

```
GEMINI_API_KEY=AIz...
```

Install Dependencies

```
npm install @google/generative-ai  
@types/multer dotenv
```

This is just one line. We installed

`@google/generative-ai` for the gemini sdk. We also installed `@types/multer` for uploading files and `dotenv` for reading the configuration from the **.env** file.

Enable CORS

Enable cors by adding to the **main.ts**

```
app.enableCors();
```

```
    await app.listen(3000);  
    ...
```

Disable .eslintrc.js

Go to the .eslintrc.js file and delete everything inside the object. Make it an empty object as follows:

```
module.exports = {};
```

Create a new module

```
nest generate module gemini
```

Create a new controller

```
nest generate controller gemini
```

Create a new service

```
nest generate service gemini
```

Gemini Service

First we need to import `GoogleGenerativeAI`, `GoogleAIFileManager`, `fs` and `config`.

```
import { GoogleGenerativeAI } from  
'@google/generative-ai';
```