



This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

SPRING AI

GENERATIVE ARTIFICIAL INTELLIGENCE CON JAVA

Simone Scannapieco

Corso base per Venis S.p.A, Venezia, Italia

Settembre 2025

Note

[illegible]



CONTROLLI DI OUTPUT LLM

Note

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- Simone Scannapieco

Note

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page, leaving small margins at the top and bottom. There are no vertical margin lines, and the paper is completely blank except for the lines themselves.

```
package it.venis.ai.spring.demo.model;

import java.util.UUID;

public record Question(UUID id, String question) {

    public Question(String question) {
        this(UUID.randomUUID(), question);
    }

}
```

Note

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper has a slight shadow on the right side, suggesting it's resting on a surface.

- ## *File* application.yml

```
spring:
  application:
    name: demo
  ai:
    openai:
      api-key: ${GOOGLE_AI_API_KEY}
      base-url: https://generativelanguage.googleapis.com/v1beta/openai
      chat:
        completions-path: /chat/completions
        options:
          model: gemini-2.0-flash-lite
          temperature: 2
          #top-p: .99
          #top-k: 30
          #max-tokens: 100
          #max-completion-tokens: 100
          #frequency-penalty: .2
          #presence-penalty: .2
          stop-sequences:
            - 3
```

Note

[illegible]

Branch: 12-spring-ai-gemini-llm-output-controls

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