



# ICT Training Center

**Il tuo partner per la Formazione e la Trasformazione digitale della tua azienda**



### Note

This image shows a blank 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

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### 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.

[illegible]

-  Simone Scannapieco

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

**File** resources/templates/get-definition-prompt.st

## File Modello di richiesta definizione

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

public record DefinitionRequest(String lemma) {}
```

### Note

[illegible]

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

import it.venis.ai.spring.demo.model.Answer;
import it.venis.ai.spring.demo.model.DefinitionRequest;
import it.venis.ai.spring.demo.model.Question;

public interface GeminiService {

    String getAnswer(String question);

    Answer getAnswer(Question question);

    Answer getDefinition(DefinitionRequest definitionRequest);

}
```

## 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.

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

import java.util.Map;
import org.springframework.ai.chat.model.ChatModel;
import org.springframework.ai.chat.model.ChatResponse;
import org.springframework.ai.chat.prompt.Prompt;
import org.springframework.ai.chat.prompt.PromptTemplate;
import org.springframework.beans.factory.annotation.Value;
import org.springframework.core.io.Resource;
import org.springframework.stereotype.Service;
import it.venis.ai.spring.demo.model.Answer;
import it.venis.ai.spring.demo.model.DefinitionRequest;
import it.venis.ai.spring.demo.model.Question;

@Service
public class GeminiServiceImpl implements GeminiService {

    ...

    @Value("classpath:templates/get-definition-prompt.st")
    private Resource definitionPrompt;

    @Override
    public Answer getDefinition(DefinitionRequest definitionRequest) {
        PromptTemplate promptTemplate = new PromptTemplate(definitionPrompt);
        Prompt prompt = promptTemplate.create(Map.of("lemma", definitionRequest.lemma()));
        ChatResponse response = chatModel.call(prompt);
        return new Answer(response.getResult().getOutput().getText());
    }
}
```

[illegible]

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

import it.venis.ai.spring.demo.model.Answer;
import it.venis.ai.spring.demo.model.DefinitionRequest;
import it.venis.ai.spring.demo.model.Question;
import it.venis.ai.spring.demo.services.GeminiService;
import org.springframework.web.bind.annotation.RestController;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestBody;

@RestController
public class QuestionController {

    private final GeminiService geminiService;

    public QuestionController(GeminiService geminiService) {
        this.geminiService = geminiService;
    }

    @PostMapping("/ask")
    public Answer askQuestion(@RequestBody Question question) {
        return geminiService.getAnswer(question);
    }

    @PostMapping("/definition")
    public Answer getDefinition(@RequestBody DefinitionRequest definitionRequest) {
        return this.geminiService.getDefinition(definitionRequest);
    }
}
```

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**Branch:** 6-spring-ai-gemini-prompt-templates

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