

# PRASAD V. POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY

## Department of Computer Science & Engineering

### ASSIGNMENT -1 & 2

Course Outcomes		
Upon successful completion of the course, the student will be able to:		
<b>CO1</b>	Understand the basic concepts of Artificial Intelligence.	L2
<b>CO2</b>	Apply the principles of AI in solutions that require problem solving, knowledge representation.	L3
<b>CO3</b>	Apply Planning and Learning for solving AI problems.	L3
<b>CO4</b>	Analyze a given problem and apply AI Techniques.	L4

<b>NAME OF THE CERTIFICATION :</b>		
<b>STUDENT FULL NAME:</b>	<b>P.KAMAL SIDDARDHA</b>	
<b>STUDENT REGISTRATION NUMBER:</b>	<b>22501A05D5</b>	
<b>COURSE:</b>	<b>B. Tech</b>	
<b>YEAR / SEM / GROUP</b>	<b>III-I , G3</b>	
<b>COURSE NAME:</b> <b>Professional Elective Course - I</b>	<b>ARTIFICIAL INTELLIGENCE</b>	
<b>COURSE CODE:</b>	<b>20CS4501D</b>	
<b>ACADEMIC YEAR:</b>	<b>2024-25</b>	
<b>DATE OF SUBMISSION:</b>	<b>-10-24</b>	
<b>SIGNATURE OF STUDENT:</b>		
<b>MARKS ALLOTTED:</b>	<b>Assignment-1</b> <b>/5</b>	<b>Assignment-2</b> <b>/5</b>
<b>NAME AND SIGNATURE OF COURSE COORDINATOR:</b>	<b>Mr. A. Prashant</b>	

# 1. Introduction to Generative AI

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Google Cloud

## Introduction to Generative AI



COMPLETION BADGE

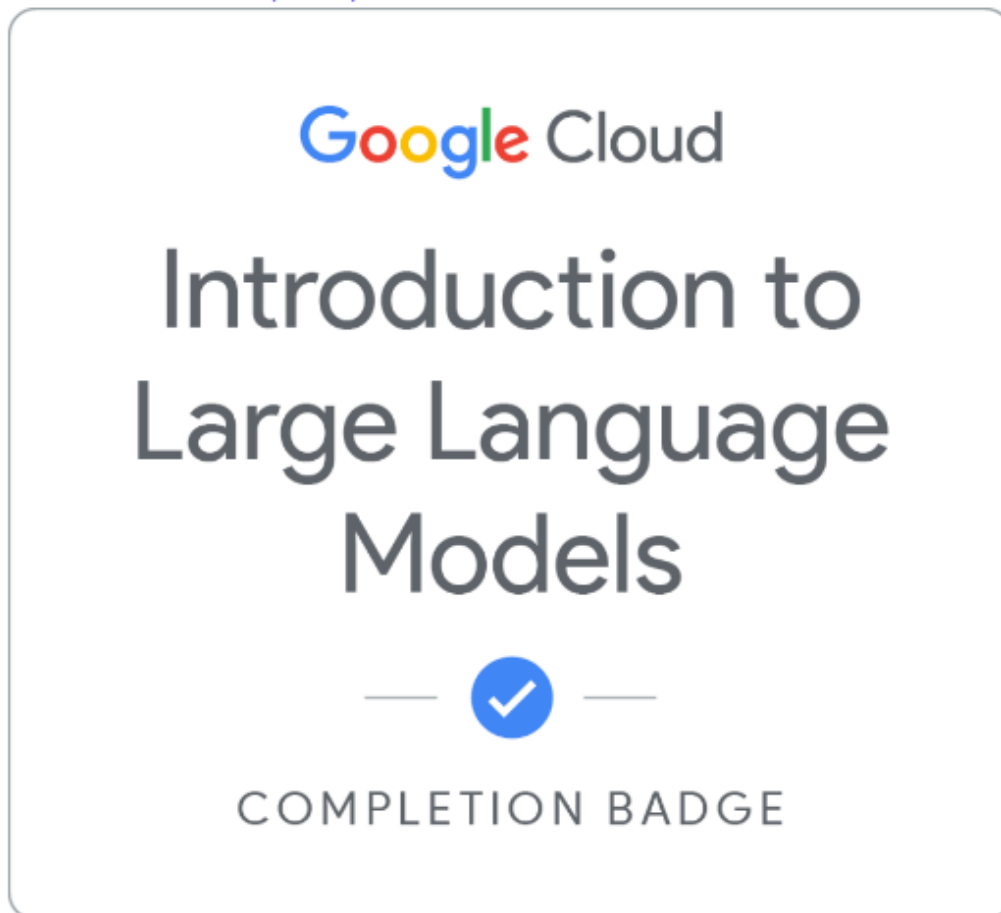
Introduction to Generative AI

May 20, 2024

## 2. Introduction to Large Language Models

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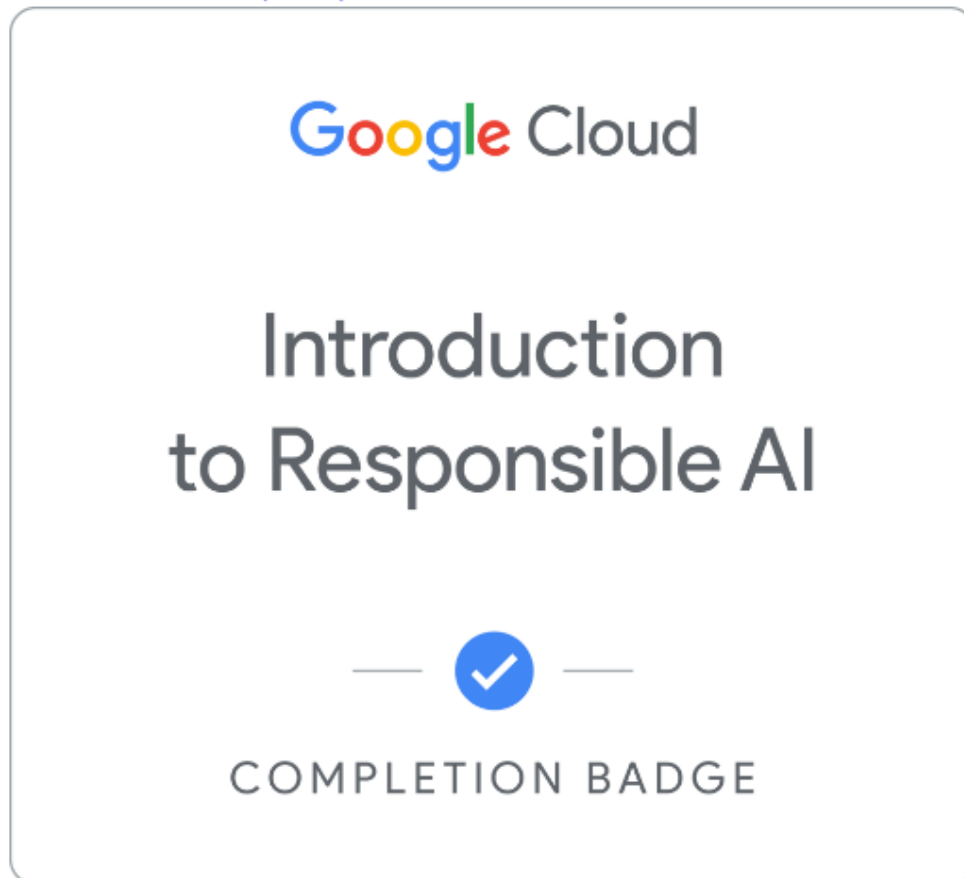
Introduction to Large Language Models

Jul 28, 2024

### 3. Introduction to Responsible AI

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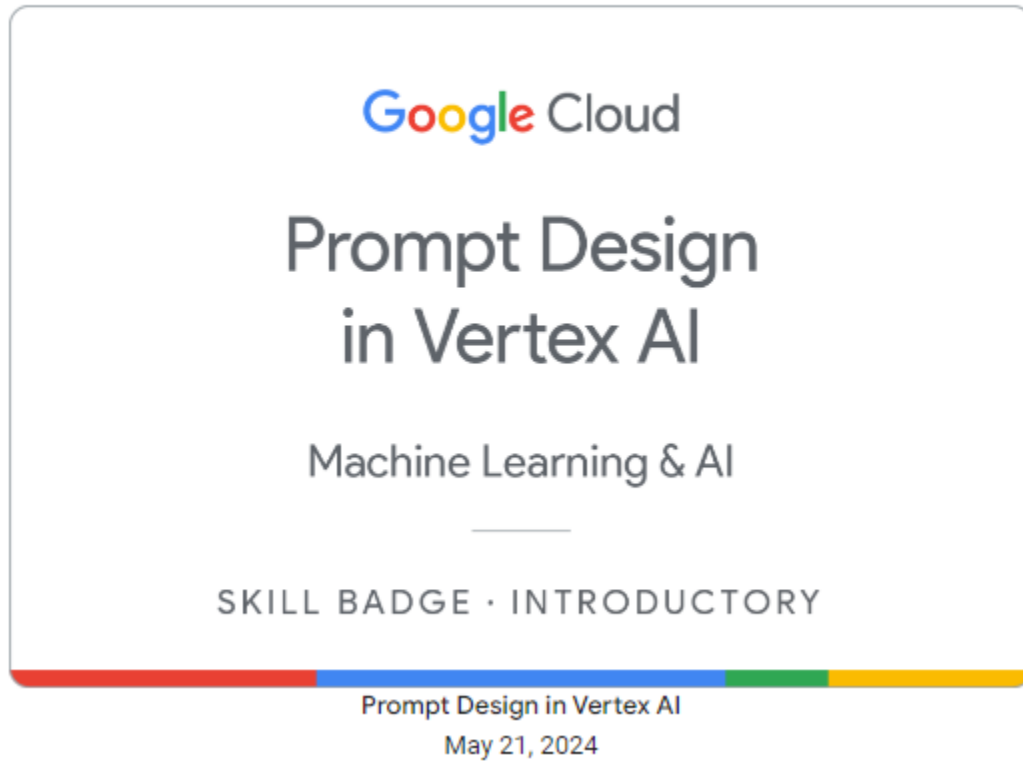
Introduction to Responsible AI

Jul 28, 2024

## 4. Prompt Design in Vertex AI

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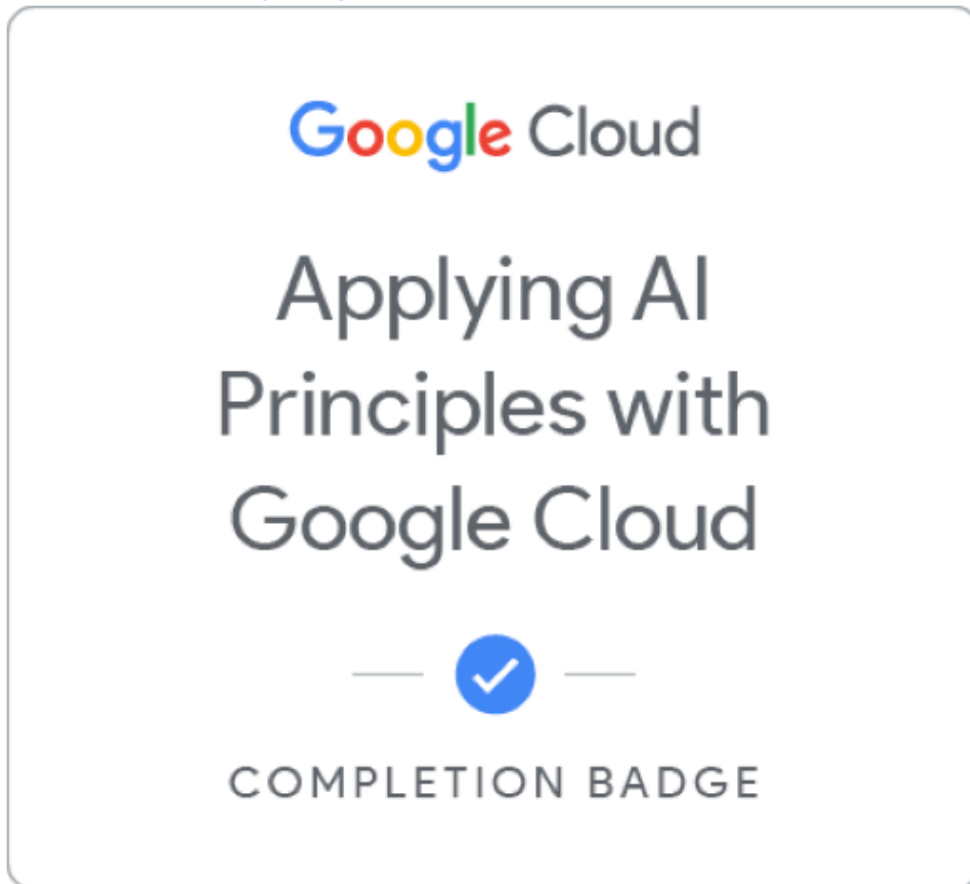
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## 5. Responsible AI: Applying AI Principles with Google Cloud

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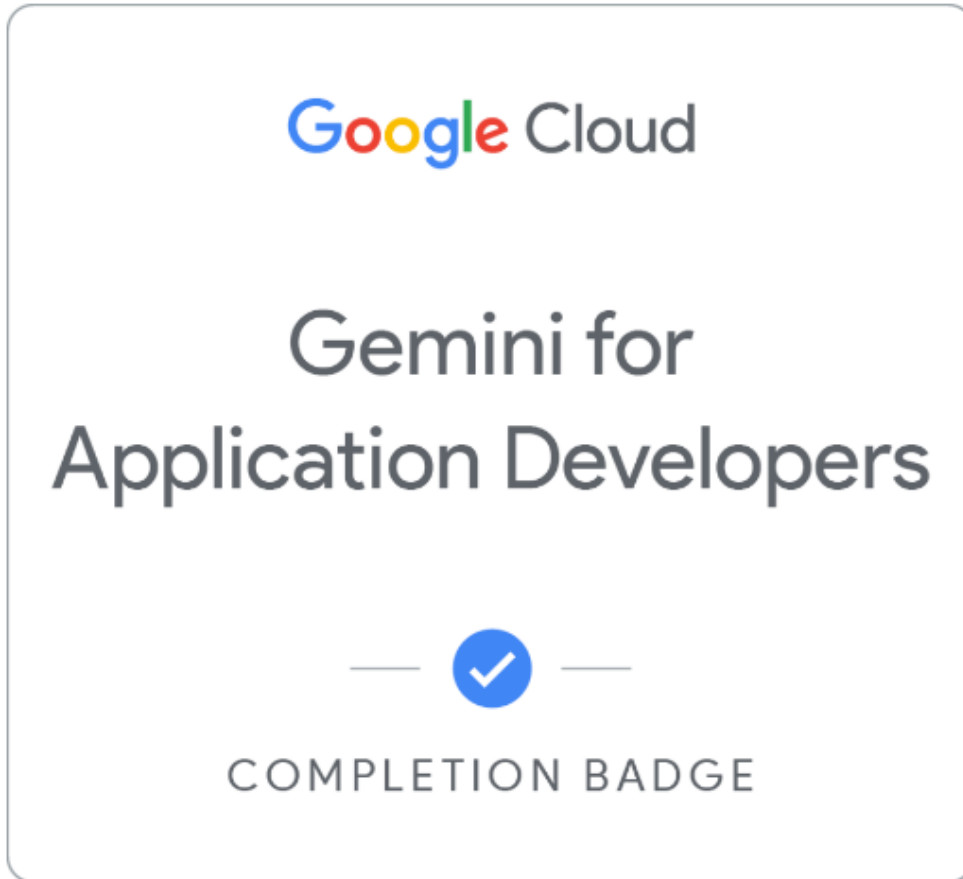
Responsible AI: Applying AI Principles with Google Cloud

Jul 28, 2024

## 6. Gemini for Application Developers

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Gemini for Application Developers

Aug 1, 2024

## 7. Gemini for Cloud Architects

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Gemini for Cloud Architects

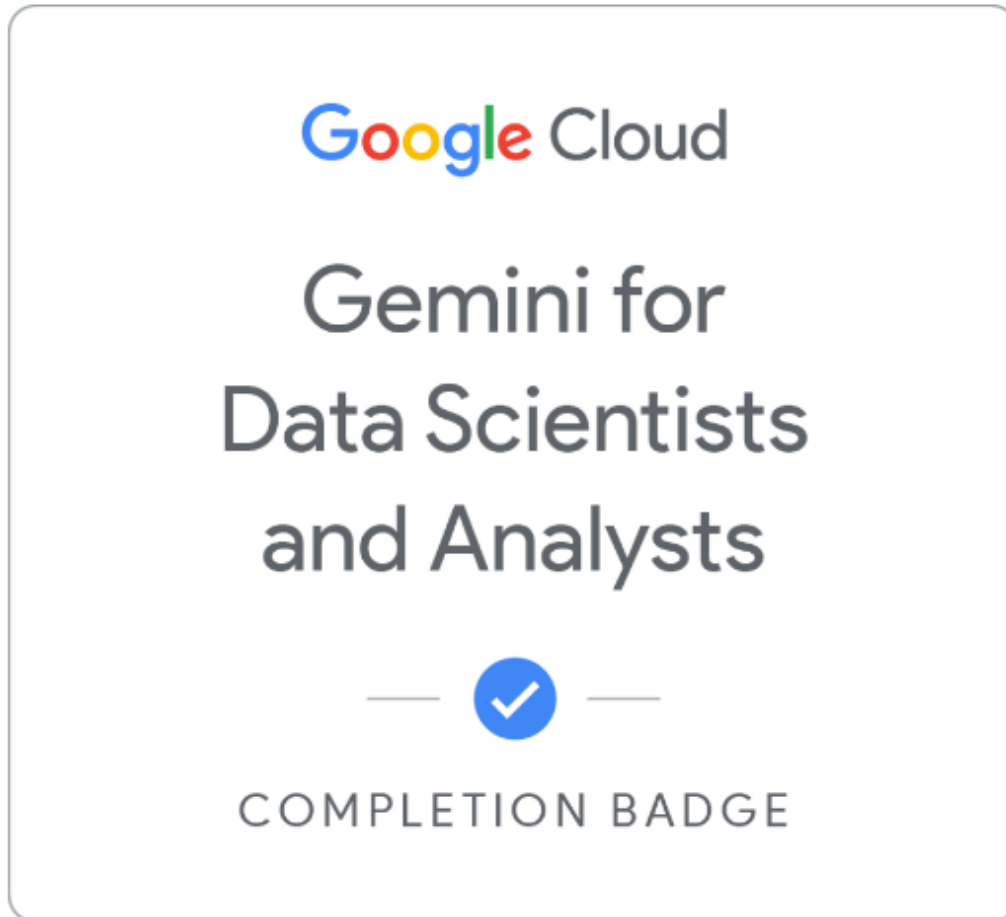
Aug 2, 2024



## 8. Gemini for Data Scientists and Analysts

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Gemini for Data Scientists and Analysts

Aug 9, 2024

## 9. Gemini for Network Engineers

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Gemini for Network Engineers

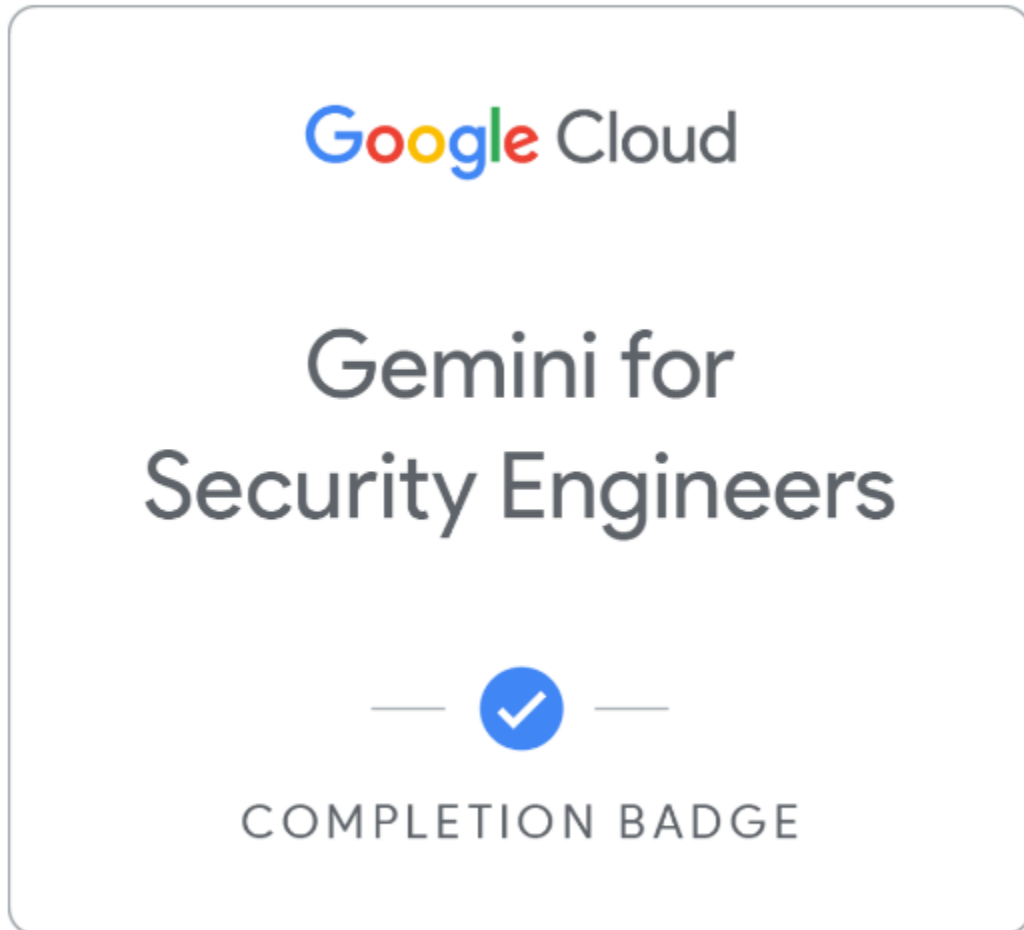
Aug 7, 2024

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## 10. Gemini for Security Engineers

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Gemini for Security Engineers

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## 11. Gemini for DevOps Engineers

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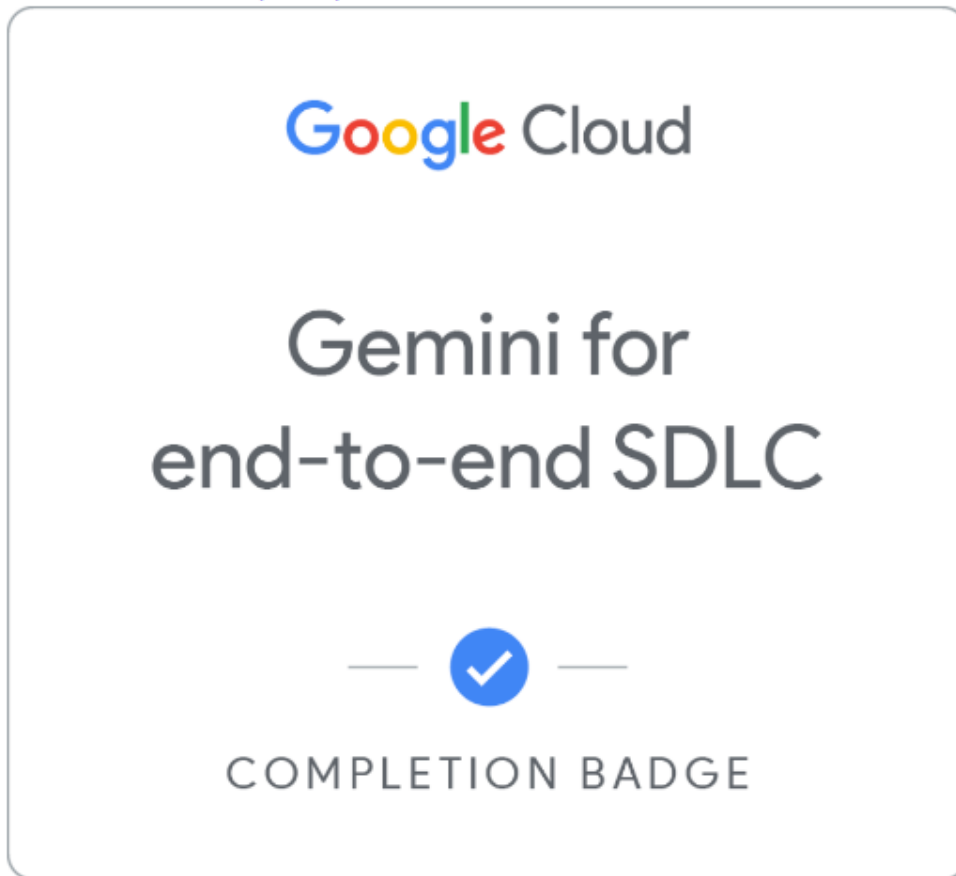
Gemini for DevOps Engineers

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## 12. Gemini for end-to-end SDLC

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Gemini for end-to-end SDLC

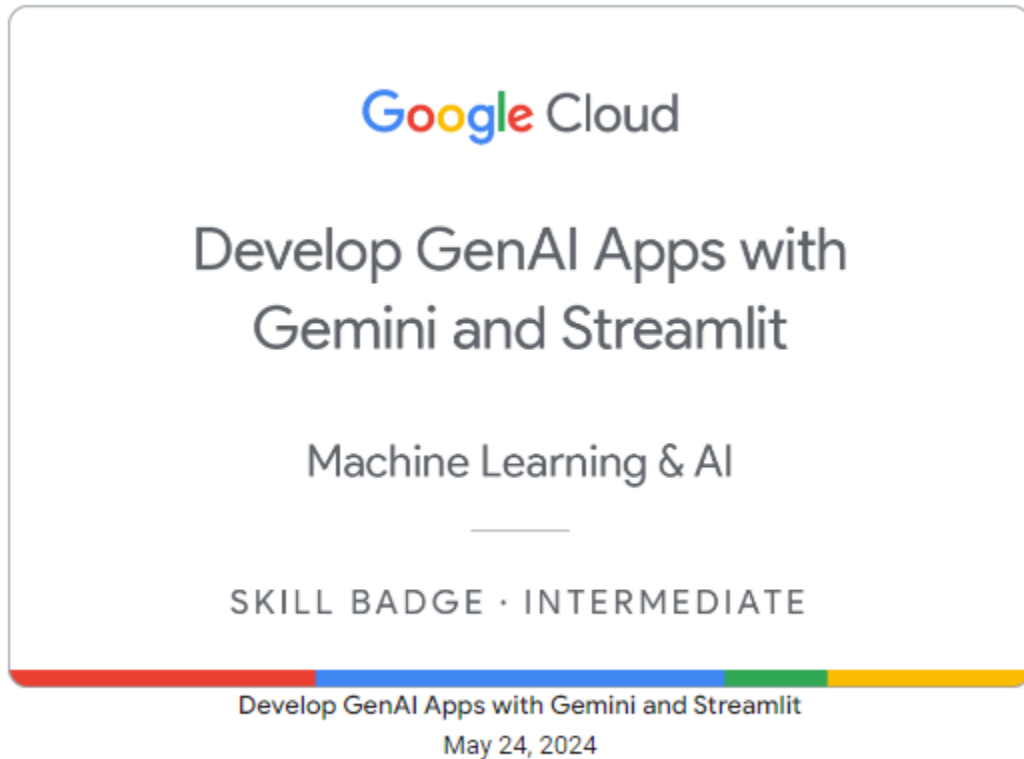
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## 13. Develop GenAI Apps with Gemini and Streamlit

<https://youtu.be/GYn49IBRV0s?si=2JhgjaI2gAT1o3oY>

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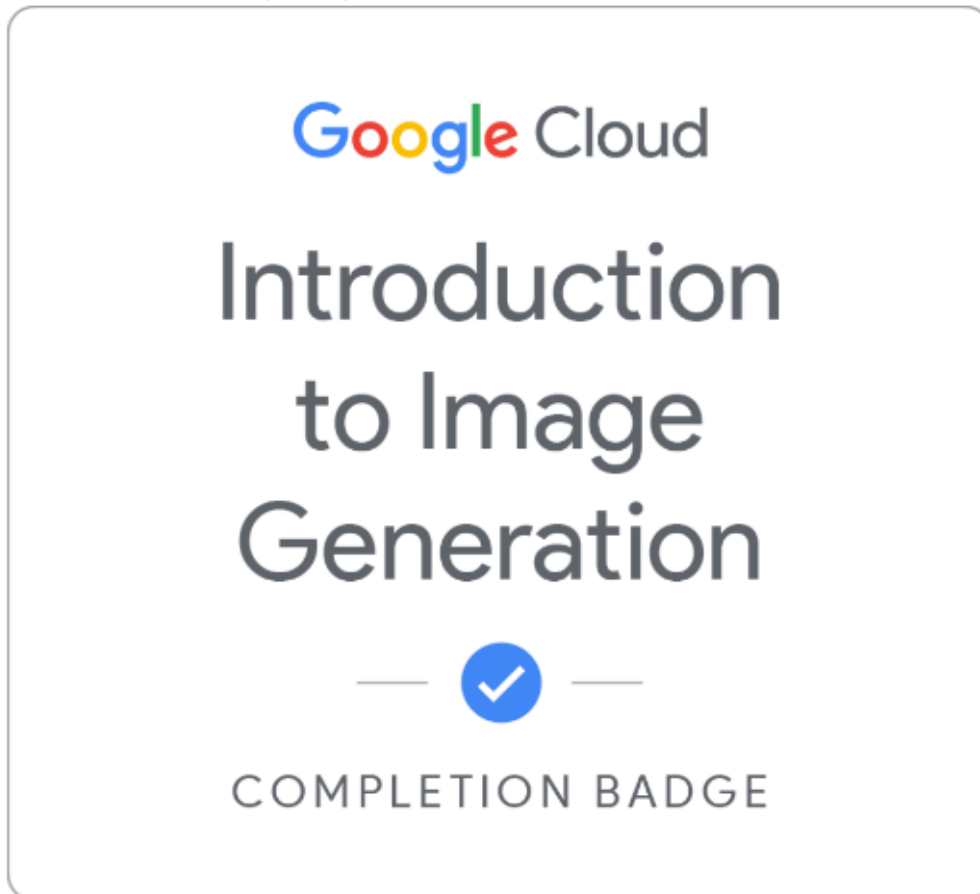
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## 14. Introduction to Image Generation

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Introduction to Image Generation

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## 15. Attention Mechanism

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Attention Mechanism

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## 16. Encoder-Decoder Architecture

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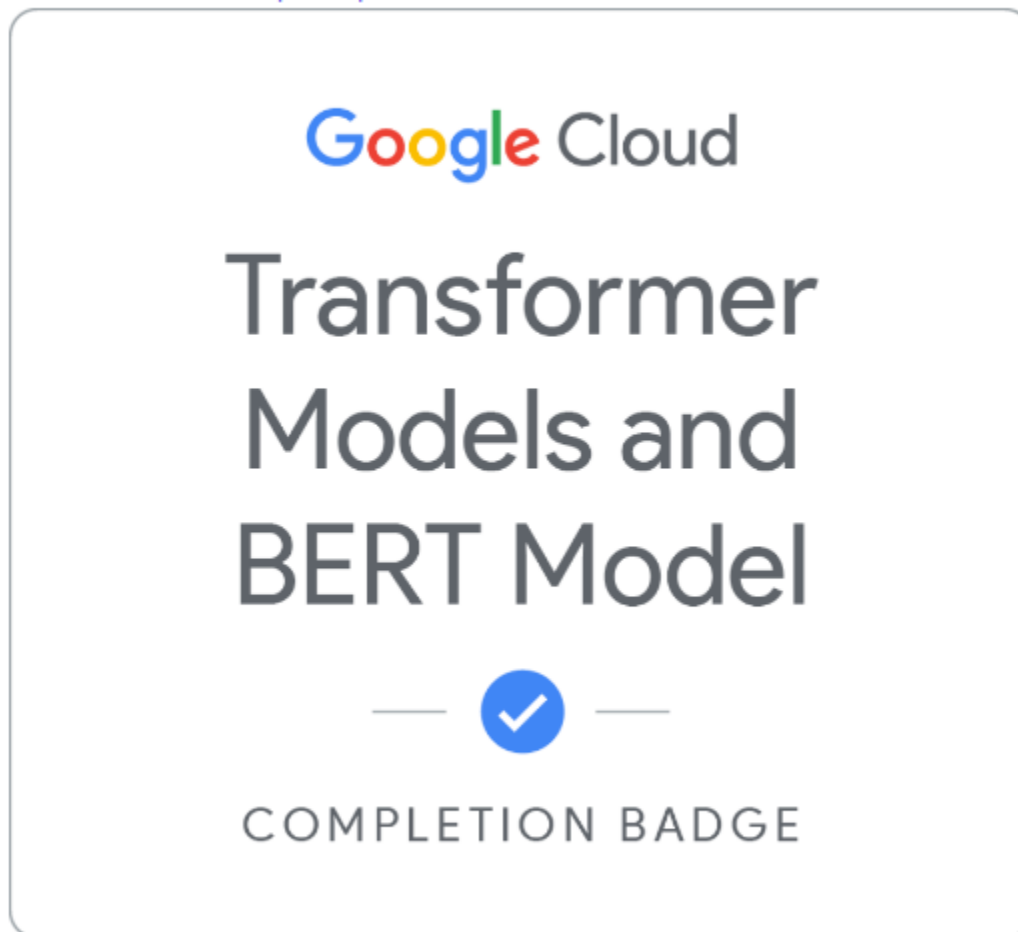
Encoder-Decoder Architecture

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## 17. Transformer Models and BERT Model

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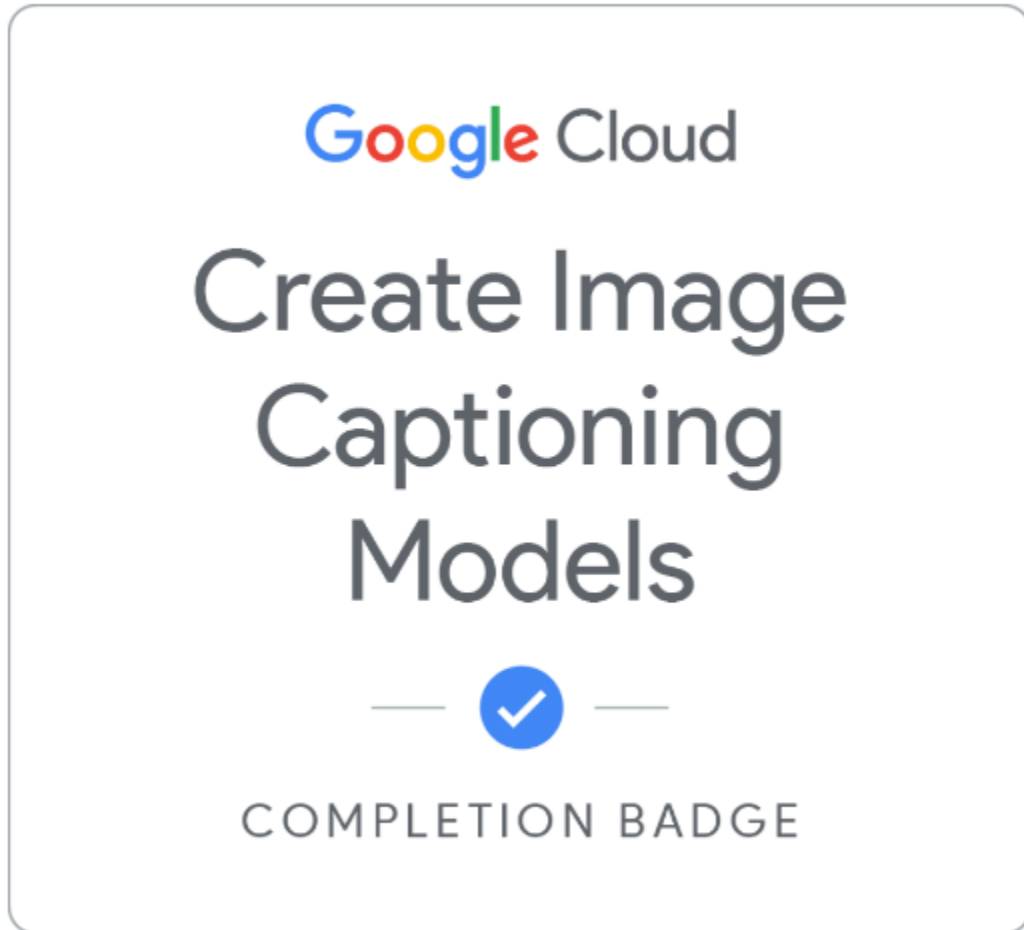
Transformer Models and BERT Model

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## 18. Create Image Captioning Models

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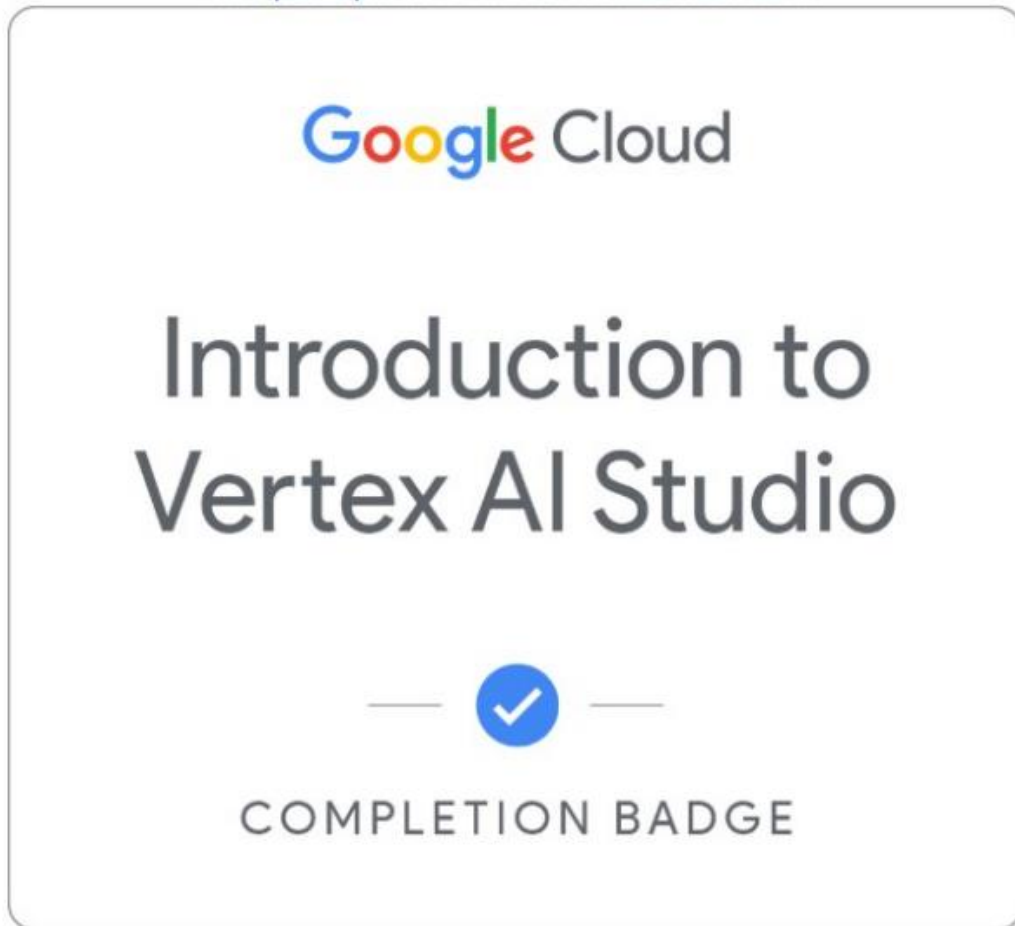
Create Image Captioning Models

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## 19. Introduction to Vertex AI Studio

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Introduction to Vertex AI Studio

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## 20. Vector Search and Embeddings

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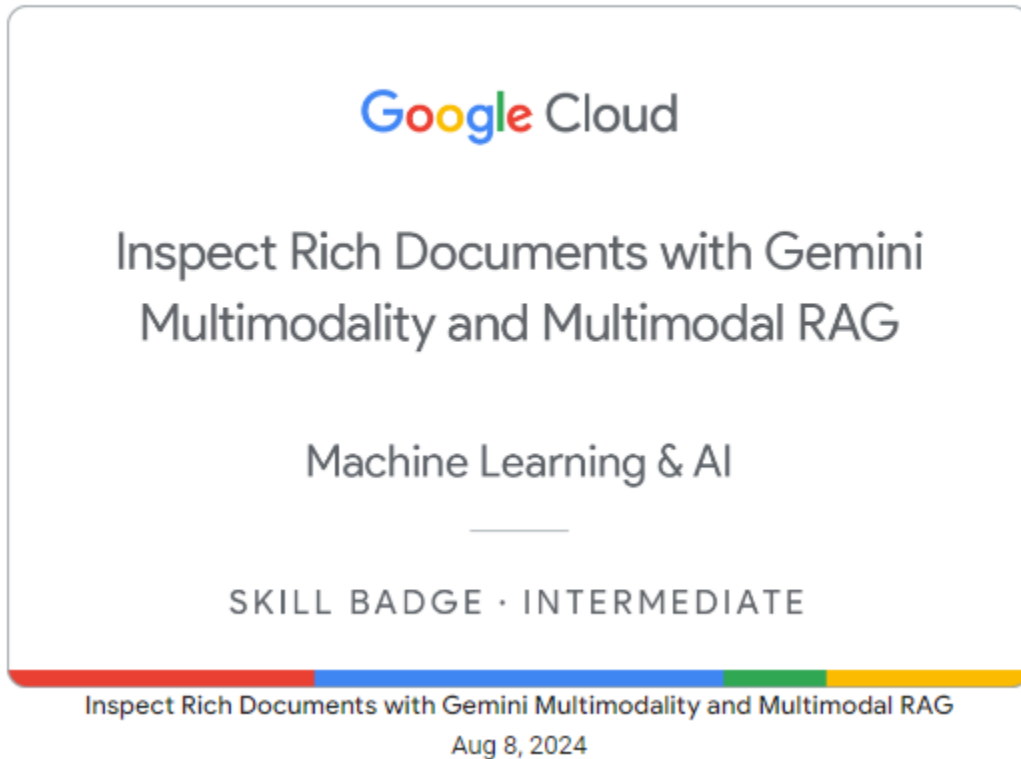
Vector Search and Embeddings

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## 21. Inspect Rich Documents with Gemini Multimodality and Multimodal RAG

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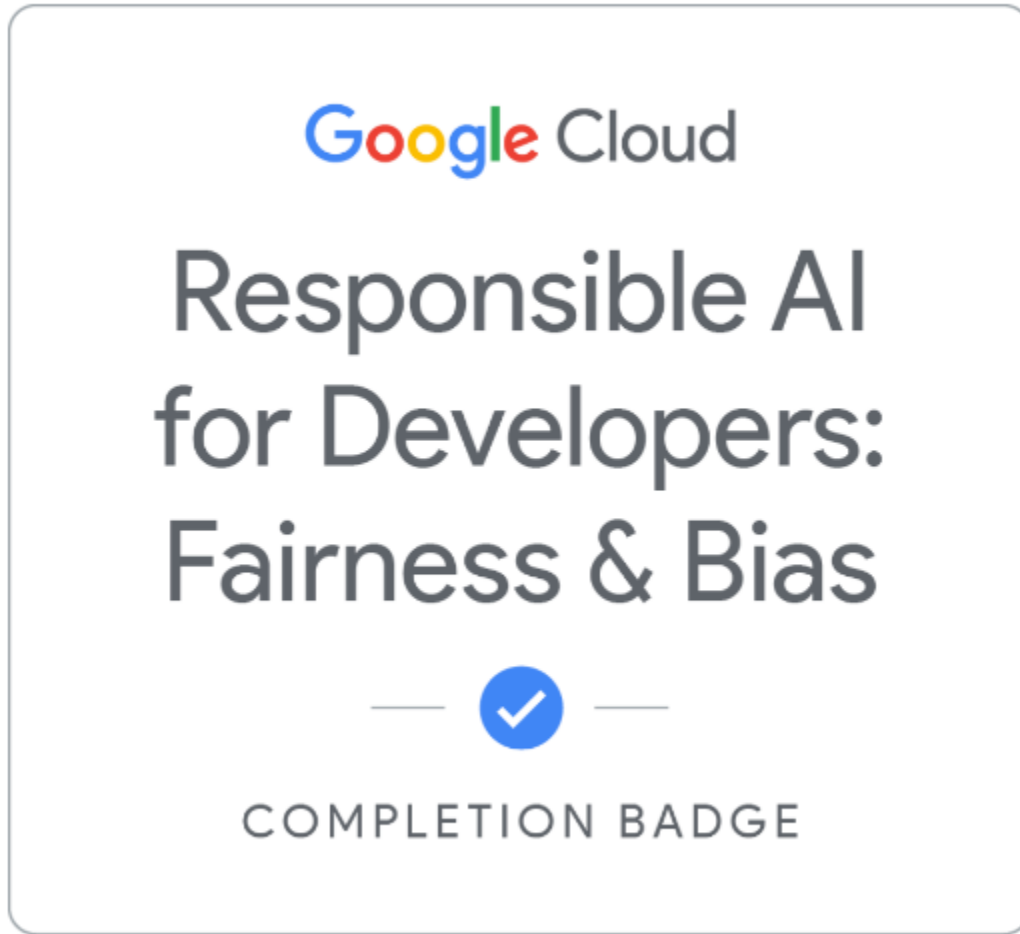
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## 22. Responsible AI for Developers: Fairness & Bias

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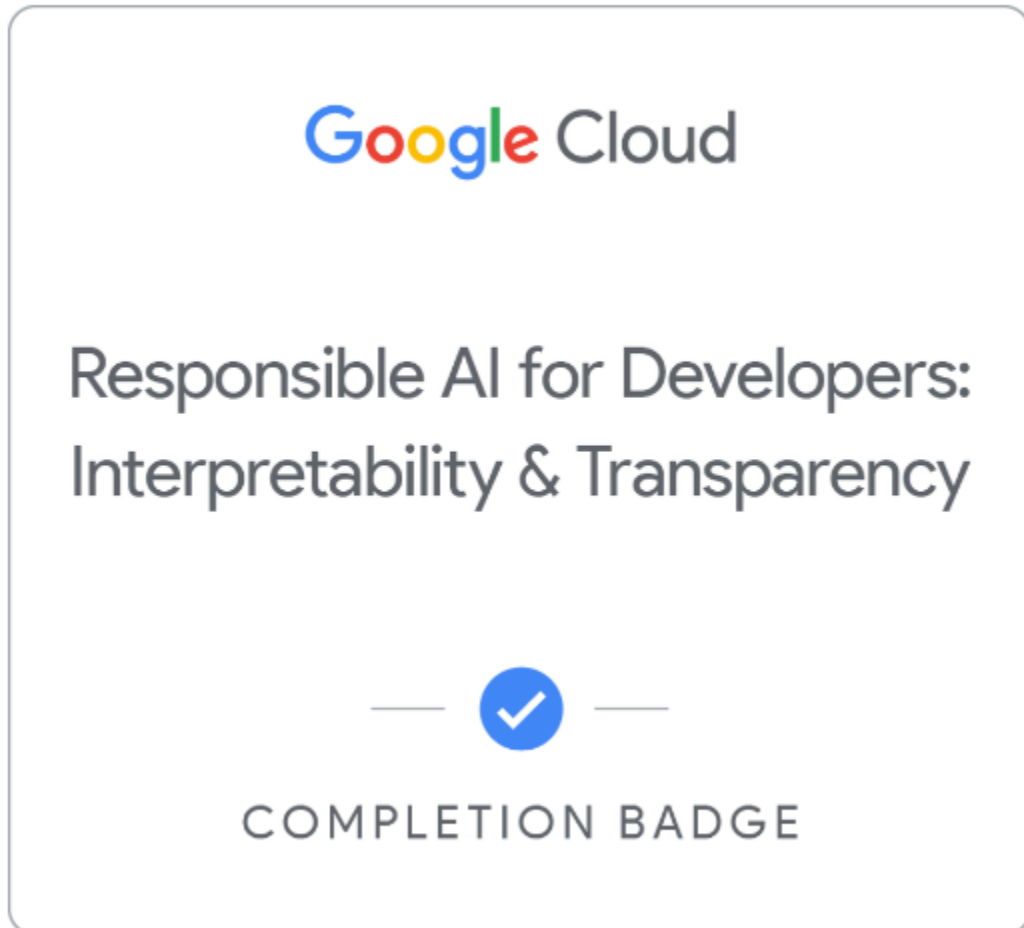
Responsible AI for Developers: Fairness & Bias

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## 23. Responsible AI for Developers: Interpretability & Transparency

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Responsible AI for Developers: Interpretability & Transparency

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## 24. Machine Learning Operations (MLOps) for Generative AI

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Machine Learning Operations (MLOps) for Generative AI

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