

Citizenship in the WorldIntelligence



Merit Badge Workbook

More help on this badge can be found at https://www.scouting.org/merit-badges/artificial-intelligence/
This workbook was updated in October 2025.

out's Name:	Unit	Date Started	
unselor's Name:	Phone No.:	Email:	
Key Concepts. Define t	he following terms and share the mea	nning of each with your counselor: (use	full sentenc
artificial intelligence (Al)		
artificial intelligence age	ents		
automation			
bots			
data			
databases			
general AI			
machine learning (ML)			
narrow Al			
superintelligent AI			
tasks			
triggers			
workflows			
variables		<u></u>	

(use full sentences):	
2(a) Identify 10 examples of how AI is currer	
1.	
2	
3	
4	
5	
0	
7	
8	
10	
2(b) Identify 5 examples of how AI is current	dy used in the workplace
2	
3	
3	
5	
5	
2(c) Identify 5 examples of how AI can be us	ed at school or in support of your education.
·	······
1	
2	
3	
4	
j.	
2/d) Play 10 rounds of the "AL or Not?" game	e to determine if the presented scenario utilizes AI.
Give your answer here and why you think so	·
dive your answer here and willy you think so	
2/a) Create a time alian quith five have milester	as in the development of outilisted intelligence
·	nes in the development of artificial intelligence.
1. Milestone:	
2. Milestone:	Approximate Date:
3. Milestone:	
4. Milestone:	Approximate Date:
5. Milestone:	Approximate Date:

2. Artificial Intelligence (AI) Basics. Do the following and share what you learned with your counselor:

Artificial Intelligence - Merit Badge Workbook	Scout's Name
3. Automation Basics. Do the following and share what you learned with you (use full sentences):	r counselor:
3(a) Identify 10 examples of how automation is currently used in everyday life 1	
3(b) Identify 5 examples of how automation is currently used in the workplace 1. 2. 3. 4. 5. 3(c) Identify 5 examples of how automation can be used at school or in support	
1	
3(d) Explain how automation performs repetitive tasks without human intervoptimizes resources.	ention and how it reduces human error and

3(e) Create a timeline with five significant milestones in **automation** development.

1. Milestone:	Approximate Date:
2. Milestone:	Approximate Date:
3. Milestone:	Approximate Date:
4. Milestone:	Approximate Date:
5. Milestone:	Approximate Date:

4. Ethics in Al. Do the following and share what you learned with your counselor: (use full sentences in your answers)
(use ruil sentences in your answers)
4(a) Research ethical concerns and responsible use in AI, including bias, privacy, and AI decision-making.
4(b) Work through 5 rounds of the "What Would You Do?" ethical decision-making scenarios. (write up your results here):
4(c) Develop your own ethical guidelines for the use of AI.

Artificial intelligence - Merit Badge Workbook	Scout's Name
4(d) What is the Turing test?	
(a) the term greet	
5. Deepfakes. Do the following and share what you learned w (use full sentences in your answer)	ith your counselor:
5(a) Explain what a deepfake is and how it can affect an individ	lual.
5(b) Describe what actions to take if you or someone you know	v is impacted by a deepfake.
6. Developing AI Skills. Do the following and share what you le	earned with your counselor:
(use full sentences in your answers):	,
6(a) Discuss the learning process for AI and its limitations.	

olain the i	mportance of	prompt eng	ineering wh	nen using AI 1	to create b	etter outpu	t.	
monstrate	e 3 examples o	of writing cle	ar instructi	ions for a sch	ool-related	d task.		
mplete th	e "Clear Comr	nunication (Challenge" a	activity.				
mplete th		nunication (Challenge" a	activity.				
mplete th	e "Clear Comr	nunication (Challenge" a	activity.				
mplete th	e "Clear Comr	nunication (Challenge" a	activity.				
mplete th	e "Clear Comr	nunication (Challenge" a	activity.				
mplete th	e "Clear Comr	nunication (Challenge" a	activity.				
mplete th	e "Clear Comr	nunication (Challenge" a	activity.				
mplete th	e "Clear Comr	nunication (Challenge" a	activity.				
mplete th	e "Clear Comr	nunication (Challenge" a	activity.				
mplete th	e "Clear Comr	nunication (Challenge" a	activity.				
mplete th	e "Clear Comr	nunication (Challenge" a	activity.				
mplete th	e "Clear Comr	nunication (Challenge" a	activity.				
mplete th	e "Clear Comr	nunication (Challenge" a	activity.				
mplete th	e "Clear Comr	nunication (Challenge" a	activity.				
omplete th	e "Clear Comr	nunication (Challenge" a	activity.				
omplete th	e "Clear Comr	nunication (Challenge" a	activity.				

Artificial Intelligence - Merit Badge Workbook

Scout's Name _____

۱ : ۲: ۸	1.4.4.11:	V 1 ~ ";T	D	11/
AITITICIAL	Intelligence -	Merit	Ranne	VVORKDOOK
uuuuu	mitomgonioo		Daago	TTOTAL

Scout's Name	
Occur 3 Name	

7. **Practical Application.** Do ONE of the following:

7(a) With your counselor's approval, choose an artificial intelligence project based on your personal interest or a community need. Develop a plan outlining the project's objectives, data requirements, and potential ethical considerations. Implement the project utilizing appropriate artificial intelligence tools, languages, or platforms. Share your project with your counselor. Discuss the steps you followed to create the project and your experience during the process.

(Discuss the steps here, and be prepared to discuss the process you used in class.)

7(b) With your counselor's approval, design a short lesson plan on AI and teach it to your patrol of a group of Scouts. The lesson should include an AI-generated age-appropriate explanation of AI, examples of how AI is used in both everyday life as well as in the workplace, and an interactive demonstration of how Scouts could utilize AI to assist them with a school assignment, Scouting activity, or rank advancement. Share information on the development process and teaching experience with your counselor.

(Send your counselor a copy of your lesion plan, and a note telling your development process and your teaching experience.)

8. Career Exploration. Do ONE of the following:

8(a) Identify three career opportunities that would use skills and knowledge in artificial intelligence or automates	tion.
--	-------

3.

Pick one and research the training, education, certification requirements, experience, and expenses associated with entering the field. Research the prospects for employment, starting salary, advancement opportunities, and career goals associated with this career. Discuss what you learned with your counselor and whether you might be interested in this career.

8(b) Interview an artificial intelligence or automation professional. Learn about their day-to-day work, the challenges they face, and their vision for the future of artificial intelligence or automation. Inquire about training, education, certification requirements, experience, and expenses associated with entering the field. Share what you learned with your counselor.