

## **Artificial Intelligence**

## Merit Badge Workbook

There is no merit badge pamphlet for this merit badge. Research is done doing Scoutly. This Workbook can help you organize your thoughts as you prepare to meet with your merit badge counselor

## Merit Badge Counselors may not require the use of this or any similar workbooks.

You still must satisfy your counselor that you can demonstrate each skill and have learned the information. You should use the work space provided for each requirement to keep track of which requirements have been completed, and to make notes for discussing the item with your counselor, not for providing full and complete answers.

If a requirement says that you must take an action using words such as "discuss", "show",

"tell", "explain", "demonstrate", "identify", etc, that is what you must do.

No one may add or subtract from the official requirements found on Scouting.org.

The requirements were issued or revised in 2025 • This workbook was updated in November 2025.

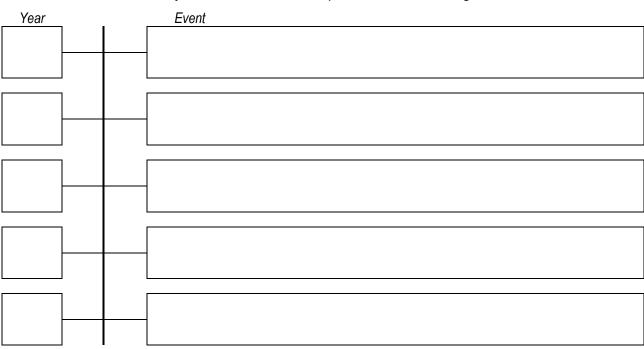
Scout's Name:	Unit	Date Started	
Counselor's Name:	Phone No.:	Email:	
For this merit Find Scoutly b	badge ask <u>Scoutly</u> the following question by clicking on the icon in the lower right c	ns. orner of <u>Scouting.org</u> or <u>BeAScout.org</u>	
_	ine the following terms and share the	e meaning of each with your counselor:	1
Artificial intelligence agents:			
Automation:			
Basic programing			
Bots:			
Data:			
Databases:			
Digital Workers:			
General AI:			
Machine learning (ML):			

5.

□ d) Meet with your counselor and play 10 rounds of the "Al or Not?" game to determine if the presented scenario utilizes Al. Discuss your answers.

Notes			

□ e) Create a timeline with five key milestones in the development of artificial intelligence.



- ☐ 2. **Automation Basics.** Do the following and share what you learned with your counselor:
  - ☐ (a) Identify 10 examples of how automation is currently used in everyday life.

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□ b) Identify 5 examples of how automation is currently used in the workplace.
1.
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4.
5.
□ c) Identify 5 examples of how automation can be used at school or in support of your education.
1.
2.
3.
4.
5.
□ d) Explain how automation performs repetitive tasks without human intervention and how it reduces human error and optimizes resources.  Notes
□ e) Create a timeline with five key milestones in the development of automation development.
Year Event

l 2. <b>Eth</b> i	ics in Al. Do the following and share what you learned with your counselor:
□ a)_	Research ethical concerns and responsible use in AI, including bias, privacy, and AI decision-making.
	Meet with your counselor, play, and discuss 5 rounds of the "What Would You Do?" ethical decision- naking scenarios.
	Notes:
□ c)	Develop your own ethical guidelines for the use of Al.
	2010.0p
□ d <u>)</u>	What is the Turing test?
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	reloping Al Skills. Do the following and share what you learned with your counselor:  Discuss the learning process for Al and its limitations.
رم) د 	Discuss the learning process for Ar and its infinations.

Potential ethical considerations:

Tools used (e.g., Al, languages, platforms)

Share project	
with counselor	
Steps followed to create the	
project	
Experience	
during the process	
•	
of Scouts. The how AI is used Scouts could ut	bunselor's approval, design a short lesson plan on AI and teach it to your patrol of a group lesson should include an AI-generated age-appropriate explanation of AI, examples of in both everyday life as well as in the workplace, and an interactive demonstration of how ilize AI to assist them with a school assignment, Scouting activity, or rank advancement. on on the development process and teaching experience with your counselor.
Lesson:	<u> </u>
Development pr	JUCASS.
Development pr	00033.
Teaching exper	ience:

Artificial Intelligence

Scout's Name: \_\_\_\_\_

	Q	Caroor	Exploration.	Do ONE	of the	following
ш	Ö.	Career	Exploration.	DO ONE	or the	tollowing

□ (a) Identify three career opportunities that would use skills and knowledge in artificial intelligence or automation.

1. 2. 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.

Career:

Training	
Education	
Certification Requirements	
•	
Experience	
Expenses associated	
with entering	
field	
Prospects for	
employment	
Starting	
salary	
Advancement	
opportunities	
Career goals	
associated with this	
career	
	t you learned with your counselor and whether you might be interested in this
career. Notes	
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Scout's Name:

☐ (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				
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work					
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Challenges					
they face					
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Their vision					
for the future					
of AI or					
automation					
Training					
Education					
Ladodion					
Certification					
requirements					
Experience					
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Expenses					
associated					
with entire the					
field					