

117TH CONGRESS
1ST SESSION

S. 3175

To authorize the Secretary of Defense to carry out a pilot program on establishing data libraries for training artificial intelligence models, and for other purposes.

IN THE SENATE OF THE UNITED STATES

NOVEMBER 4, 2021

Ms. ROSEN (for herself and Mr. PORTMAN) introduced the following bill;
which was read twice and referred to the Committee on Armed Services

A BILL

To authorize the Secretary of Defense to carry out a pilot program on establishing data libraries for training artificial intelligence models, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “Advancing American
5 Artificial Intelligence Innovation Act of 2021”.

1 **SEC. 2. DEPARTMENT OF DEFENSE PILOT PROGRAM ON**
2 **DATA LIBRARIES FOR TRAINING ARTIFICIAL**
3 **INTELLIGENCE MODELS.**

4 (a) PILOT PROGRAM AUTHORIZED.—The Secretary
5 of Defense, acting through the Director of the Joint Arti-
6 cial Intelligence Center or such other official as the Sec-
7 retary considers appropriate, may carry out a pilot pro-
8 gram to assess the feasibility and advisability of estab-
9 lishing data libraries for developing and enhancing artifi-
10 cial intelligence capabilities to ensure that the Department
11 of Defense is able to procure optimal artificial intelligence
12 and machine learning software capabilities to meet De-
13 partment requirements and technology development goals.

14 (b) AUTHORITIES.—In carrying out a pilot program
15 under subsection (a), the Secretary may—

16 (1) establish data libraries containing Depart-
17 ment data sets relevant to the development of artifi-
18 cial intelligence software and technology; and

19 (2) allow appropriate public and private sector
20 organizations to access such data libraries for the
21 purposes of developing artificial intelligence models
22 and other technical software solutions.

23 (c) ELEMENTS.—If the Secretary elects to carry out
24 the pilot program under subsection (a), the data libraries
25 established under the program—

1 (1) may include unclassified data representative
2 of diverse types of information, representing Depart-
3 ment missions, business processes, and activities;

4 (2) shall be categorized and annotated to sup-
5 port development of a common evaluation framework
6 for artificial intelligence models and other technical
7 software solutions;

8 (3) shall be made available to such public and
9 private sector organizations as the Secretary con-
10 siders appropriate to support rapid development of
11 software and artificial intelligence capabilities;

12 (4) shall include capabilities and tool sets to de-
13 tect, evaluate, and correct errors in data annotation,
14 identify gaps in training data used in model develop-
15 ment that would require additional data labeling,
16 and evaluate model performance across the lifecycle
17 of its use; and

18 (5) shall be developed to support such other
19 missions and activities as the Secretary considers
20 appropriate.

21 (d) BRIEFING.—Not later than 270 days after the
22 date of the enactment of this Act, the Secretary shall pro-
23 vide to the congressional defense committees a briefing on
24 implementing this section, including an identification of
25 the types of information that the Secretary determines are

1 feasible and advisable to include in the data libraries
2 under subsection (b)(1).

3 (e) CONGRESSIONAL DEFENSE COMMITTEES DE-
4 FINED.—In this section, the term “congressional defense
5 committees” has the meaning given that term in section
6 101(a) of title 10, United States Code.

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