

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2024/0214397 A1 GILL et al.

Jun. 27, 2024 (43) **Pub. Date:**

(54) SYSTEMS AND METHODS FOR TRAINING A MACHINE LEARNING MODEL TO CONFIRM RESULTS OF EVENT DETECTION

(52) U.S. Cl. CPC H04L 63/1416 (2013.01); H04L 41/0631 (2013.01); **H04L 51/02** (2013.01)

(71) Applicant: Capital One Services, LLC, McLean,

(57)ABSTRACT

(72) Inventors: Renee GILL, New York, NY (US); Joshua EDWARDS, Philadelphia, PA (US); Kathryn TIKOIAN, South

Orange, NJ (US)

(73) Assignee: Capital One Services, LLC, McLean,

VA (US)

- (21) Appl. No.: 18/145,567
- (22) Filed: Dec. 22, 2022

Publication Classification

(51) **Int. Cl.** (2006.01)H04L 9/40 H04L 41/0631 (2006.01) H04L 51/02 (2006.01)

In some aspects, a computing system may identify a feature that can be used to distinguish between data that is more likely to be representative of the target population. A computing system may identify a feature in a dataset where a first value of the feature is associated with a higher likelihood that a corresponding sample is not a member of the target population. Due to the differences between samples that have the first value and samples that have the second value, the computing system may determine that samples with the first value are less likely to be members of the target population or samples with the second value are more likely to be members of the target population. The computing system may determine that a training dataset should be generated using samples that have the second value.

400

