(12) PATENT APPLICATION PUBLICATION   (21) Application No.202211046852 A

(19) INDIA

(22) Date of filing of Application :17/08/2022   (43) Publication Date : 20/01/2023

(54) Title of the invention : EMBEDDED TOOL WITH ENHANCED CLASSIFICATION PERFORMANCE

(51) International classification	:G06K0009620000, G06F0017000000, G07C0005080000, G06F0016130000, G06F0021310000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present disclosure relates to a system and method (100) for an embedded tool with enhanced classification performance. The system (100) is provided a housing (102) where a data storage unit (104), a preprocessing unit (106), and a processing unit (108) are configured. The data storage unit (104) receives and stores input from files having data sets with explicit demographic characteristics stated in a profile page. The preprocessing unit (106) provides one or more features of the data set based on the inputs received by the data storage unit (104) and communicates it to the processing unit (108). Additionally, processing unit (108) provides classification using one more techniques while constructing new training data based on the initial data sets provided by the preprocessing unit (106). Finally, processing unit (108) classifies new training data to provide appropriate strategies for each classification category and communicates this information to an external device (110).

No. of Pages : 19 No. of Claims : 5