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(57) Abstract :

The present disclosure pertains to a personality based human resource assessment system (100) and method (400). The system (100) includes a device (102), a set of sensors (104), a display (106), and a processing unit (108). The set of sensors (104) can be fitted on the device (102) and scans facial features of a first entity .Feature recognition tool is embedded in device and the processing unit (108) facilitates tracking social media profiles of the first entity to gauge level of activity like number of new posts, frequency of posts, and the like. An 'Employee Database', is generated through the processing unit (108) which contains information on facial features, big five dimensions of personality, work attitude and demographics. An artificial neural network (ANN) builds a ANN based predictive model to relate facial features with personality and work attitude, predict personality based on facial features, and predict work attitude based on personality and calculate a score, where the score is displayed on device display (106).

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