



Kumar Swarnim <kumarswarnim19@gmail.com>

2nd INTERNATIONAL CONFERENCE ON NEW FRONTIERS IN COMMUNICATION, AUTOMATION, MANAGEMENT AND SECURITY 2025 : Submission (767) has been created.

1 message

Microsoft CMT <noreply@msr-cmt.org>

13 April 2025 at 12:36

Reply-To: Microsoft CMT - Do Not Reply <noreply@msr-cmt.org>

To: kumarswarnim19@gmail.com

Hello,

The following submission has been created.

Track Name: ICCAMS2025

Paper ID: 767

Paper Title: Multi Model ML Approach for Autism Syndrome Prediction

Abstract:

Autism Spectrum Disorder (ASD) serves as a developmental condition which disrupts communication abilities together with behavioral patterns and social interaction elements. Timely identification of ASD is crucial for early intervention and improved quality of life. Traditional diagnostic methods rely on clinical observations and standardized evaluations, which can be lengthy and subjective in nature. Recently, machine learning (ML) techniques have emerged as effective ways to predict ASD using behavioral and demographic data. This study provides a comparison of three widely used ML algorithms—Random Forest, Decision Tree, and XGBoost—for predicting ASD. We establish evaluations based on precision, accuracy and computational speed for these models. Analysis of strength and limitations between different methods within the study creates valuable information for making effective decisions regarding practical ASD screening applications. We examine both the issues stemming from dataset quality as well as problems related to feature selection and model interpretability that affect predictions in ASD. The manuscript seeks to advance AI-assisted healthcare by determining the most successful machine learning system for autism detection in early stages.

Created on: Sun, 13 Apr 2025 07:06:24 GMT

Last Modified: Sun, 13 Apr 2025 07:06:24 GMT

Authors:

- kumarswarnim19@gmail.com (Primary)
- abhijeetsingh.9406@gmail.com

Primary Subject Area: • AI and Machine Learning • Business Intelligence • Technical Trends •
Ambient Technology • Communication

Secondary Subject Areas: Not Entered

Submission Files:

ASD ResearchPaper.pdf (467 Kb, Sun, 13 Apr 2025 07:04:07 GMT)

Submission Questions Response: Not Entered

Thanks,
CMT team.

To stop receiving conference emails, you can check the 'Do not send me conference email' box from your User Profile.

Microsoft respects your privacy. To learn more, please read our [Privacy Statement](#).

Microsoft Corporation

5/13/25, 10:45 PM

Gmail - 2nd INTERNATIONAL CONFERENCE ON NEW FRONTIERS IN COMMUNICATION, AUTOMATION, MANAGEMEN...

One [Microsoft Way](#)
[Redmond, WA 98052](#)