Project Idea:

Design a system to diagnose autism in young children. We aim to establish a ruled based expert system, with a knowledge base as well as a data-base, and a machine learning model to perform diagnosis. We aim to compare the performance, and try to come up with a hybrid approach which utilizes both these mentioned techniques.

Group Members:

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AI techniques to be implemented:

1. Artificial Neural Network
2. A Belief Rule Based Expert System
3. K-Fold validation

Domain:

* Computational Biology, and medical science

Programming Lanuage:

* Python
* R (if needed)

Dataset:

* <https://www.kaggle.com/fabdelja/autism-screening-for-toddlers>

Literature:

* <http://www.iaeng.org/publication/WCECS2015/WCECS2015_pp483-490.pdf>