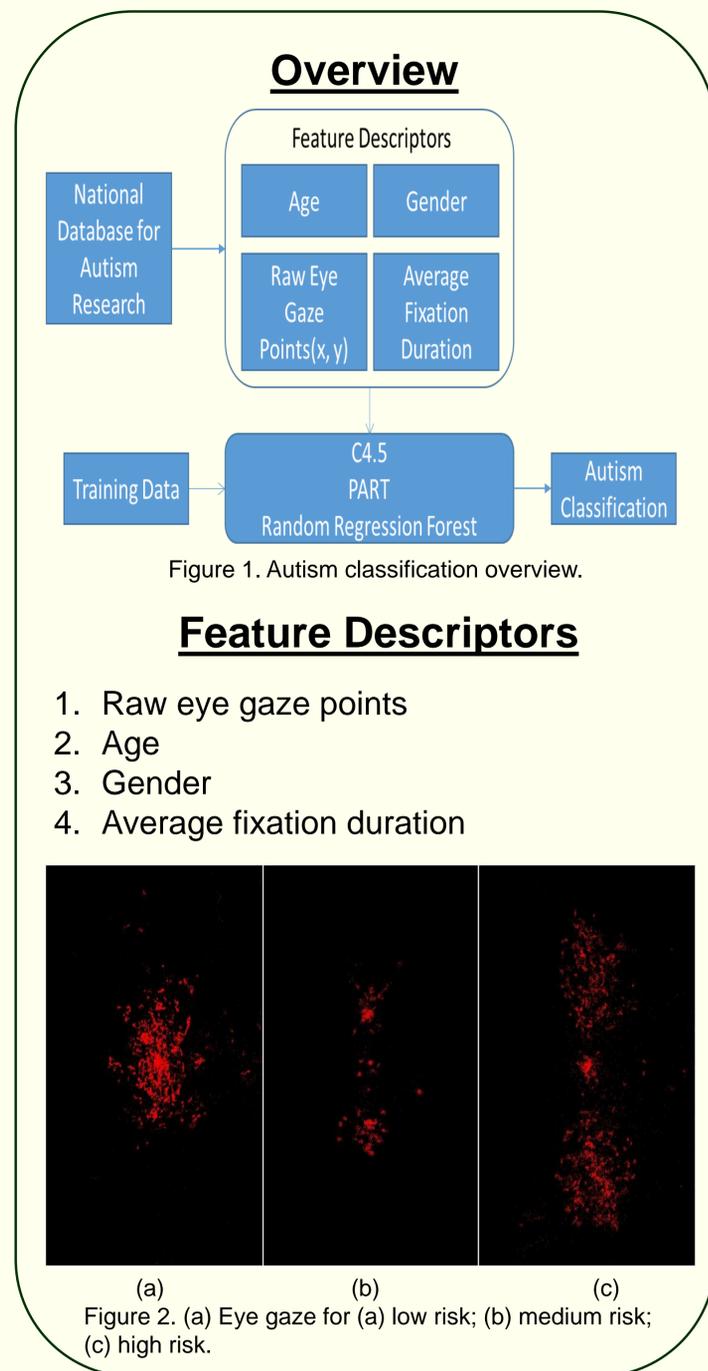


Combining Gaze and Demographic Feature Descriptors for Autism Classification

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NDAR

Table 1. NDAR[1] statistics.

Age Ranges	Gender	Risk Types	# Subjects
2-10	F	Low;	45
	M	High	49
11-20	F	Low;	17
	M	Medium;	54
21-30	F	medium	27
	M		41
31-40	F	medium	2
	M		2
60+	F	NA	NA
	M	ASD	20

Results

Table 2. Results of 3 tested classifiers on [1].

Classifier	PART	C4.5	Random Regression Forest
Original Data	94.16%	94.16%	91.05%
Outliers Removed	96.2%	94.94%	93.25%

Table 3. Part[2] with all subjects.

	low	medium	high	ASD
low	39	0	8	0
medium	0	130	0	1
high	6	0	53	0
ASD	0	0	0	20

Table 4. C4.5[3] with all subjects.

	low	medium	high	ASD
low	39	0	8	0
medium	0	130	0	1
high	6	0	53	0
ASD	0	0	0	20

Table 5. Random Regression Forest[4] with all subjects.

	low	medium	high	ASD
low	37	2	8	0
medium	0	131	0	0
high	3	4	52	0
ASD	0	6	0	14

Conclusions

- Classification rate of 96.2%
- Focus on children is important for improved quality of life
- Research into key features needed.

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