



Dyst *&* **ch**



Information Pack

Summary

Dyslexia is a learning disorder which impacts the ability of reading and most of the time the ability of writing.

It is widely accepted that 10-20% of the world population has dyslexia!

DYSLEXIA IS ASSOCIATED WITH:



LONG-TERM NEGATIVE IMPACT
ON ACADEMIC SUCCESS



INCREASED LIKELIHOOD OF SCHOOL
DROP-OUT IN ADOLESCENCE



REDUCED LIKELIHOOD OF
TERTIARY EDUCATION PURSUIT



INCREASED RISK OF ANXIETY
AND DEPRESSION



LOW SELF-ESTEEM AND
SELF-CONFIDENCE²

What do we want to achieve?

Our mission is to help the million of children with dyslexia to obtain an early assessment.

“**Best practice support for students with dyslexia includes early identification and differentiated teaching approaches**”^{3,4}

How to achieve our goal?

In order for us to create an assessment app to accurately identify the risk of dyslexia we need 3 things:



1 Collect audio recordings and photos of handwritten text using our mobile app from 2,000 children with and without dyslexia. All samples collected are automatically de-identified.



2 Using the collected samples, we apply artificial intelligence technology to train our algorithm to identify patterns specific to dyslexic children. We then use our model to predict the likelihood of dyslexia with a very high accuracy on our dataset.



3 Run test pilot with professional and educational partners to measure the accuracy of our model on new data. Then publish our results via scientific journals.

The assessment?

The assessment will be very simple and will only have 3 steps



1

Fill-out preliminary non-identifiable information about the child being assessed



3

Have the child read aloud words on the screen



2

Take a photo of their handwritten text (3-4 lines)

Done!

Obtain an assessment of the likelihood of dyslexia

How can you help?



PARENTS

Talk to your school or your educational psychologist, tell them about us and let them know that we are looking to work with them to help children with dyslexia.



SCHOOLS

If dyslexia is a problem, talk to us. We can work together to help your students have early assessment of dyslexia.



PROFESSIONALS

Wouldn't it be great for you to have a tool that allows you to quickly know if a child has dyslexia? So that you can focus on what really matters, helping children.

What are the benefits?

CURRENT ASSESSMENT



Waiting time:

6+ months⁵



Costs:

AUD\$1,000+⁶



Assessment Time:

8+ hours⁷



Qualification:

Certified professional⁸

WITH DYSTECH ASSESSMENT



Waiting time:

Instant access



Costs:

<AUD\$100



Assessment time:

15 minutes



Qualification:

DIY

References

¹ The Yale Center for Dyslexia and Creativity. Retrieved from: <http://dyslexia.yale.edu/dyslexia/what-is-dyslexia>

Australian Dyslexia Association. Retrieved from: <https://dyslexiaassociation.org.au/dyslexia-in-australia/>

² Quach, J., O'Connor, M., Goldfeld, S., Gold, L., Hopkins, D., Beatson, R., & Aston, R. (2015). Approaches to the provision of educational support for children and young people with additional health and developmental needs: Dyslexia. Centre for Community Child Health, Melbourne, Vic

³ <http://www.education.vic.gov.au/Documents/about/department/PSD-Review-Report.pdf>

⁴ https://www.researchgate.net/publication/328545665_Early_Identification_of_Dyslexia_Understanding_the_Issues

^{5,6} https://www.aph.gov.au/parliamentary_business/committees/senate/community_affairs/speech_pathology/Report/c05

^{7,8} <https://dyslexia.yale.edu/resources/parents/what-parents-can-do/dyslexia-evaluation-overview/>