



## OUR TEAM:

- 1. Gurinder Singh
- 2. Bhavya Sharma
- 3. Dipesh Jaluria
- 4. Mansimrat

## GITHUB REPO:

https://github.com/Guri007dhiman/LearnAble\_Al





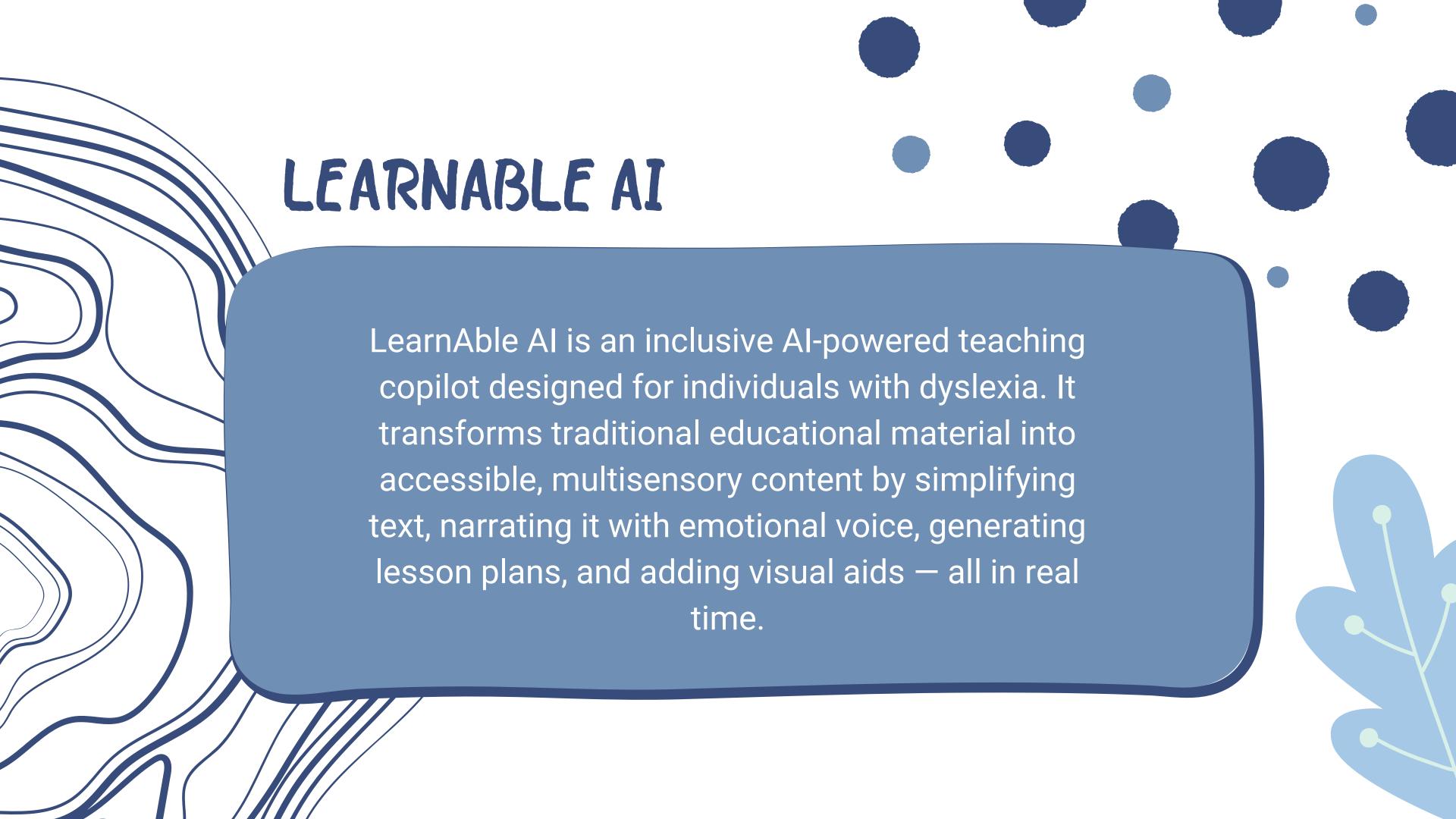


Over 700 million individuals worldwide face reading and comprehension challenges due to dyslexia. Traditional learning systems lack adaptive, accessible tools that address their needs — resulting in academic stress, exclusion, and over-dependence on external support.

## OUR SOLUTION - LEARNABLE AI

An Al-powered learning assistant that:

- Simplifies complex content
- Reads aloud in emotional tone
- Creates personalized lesson plans
- Adds visual aids for better comprehension
- Adapts to individual learning pace





# TECH STACK

### **Frontend and Backend:**

React, Tailwind CSS, Vite, TypeScript, ShadCN UI

### **Al Services**:

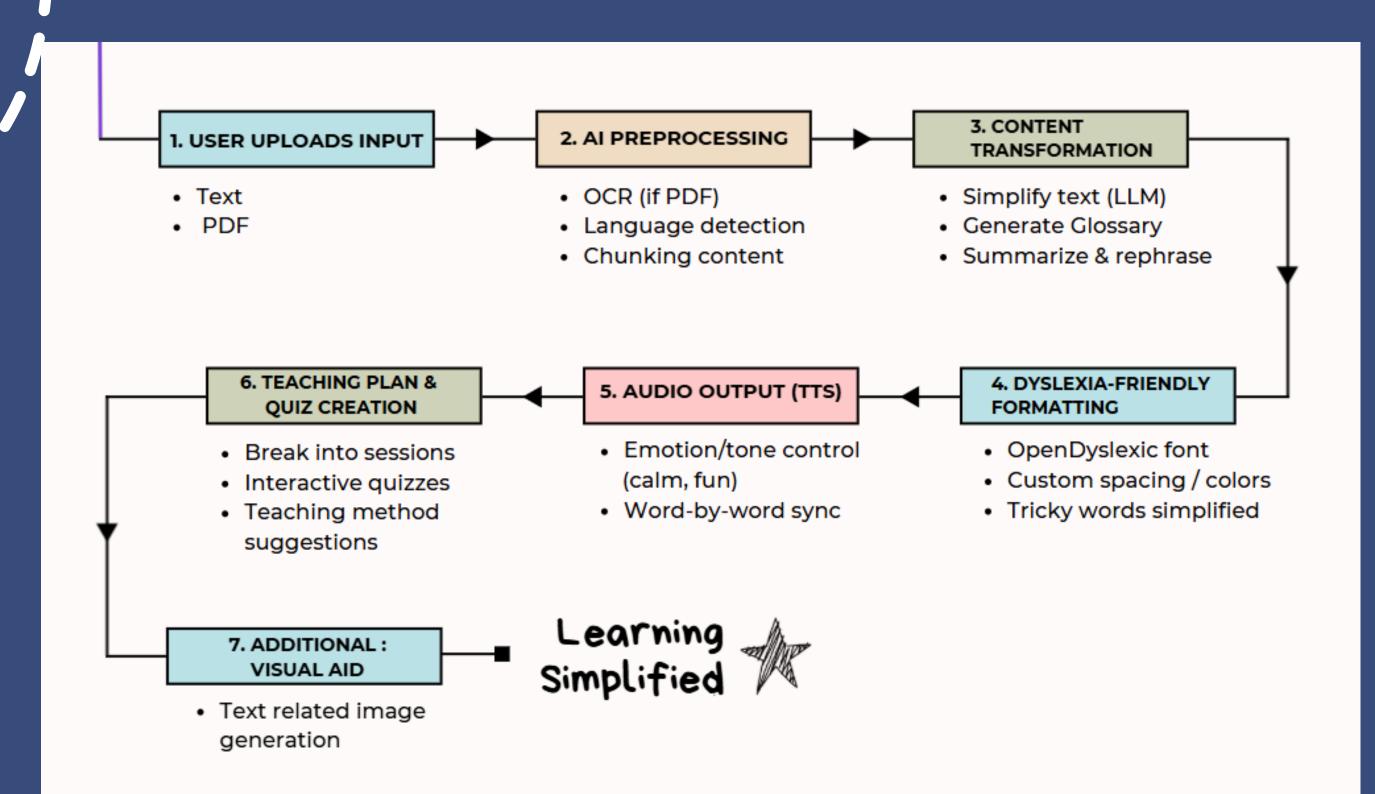
- Gemini API Text simplification
- ElevenLabs Text-to-Speech
- Pexels API Visuals for conceptual aid
- PDF2MD PDF text extraction

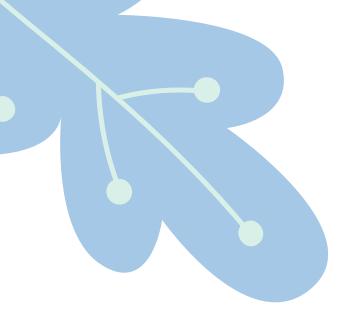
# INNOVATION & UNIQUENESS

- Combines Al-based simplification, emotional voice modulation, and visual support.
- Supports adaptive teaching strategies based on user pace and needs.

- Promotes accessibility
   through multi-sensory
   learning experiences.
- Scalable to support other learning disabilities (ADHD, autism).

## HOW IT WORKS:

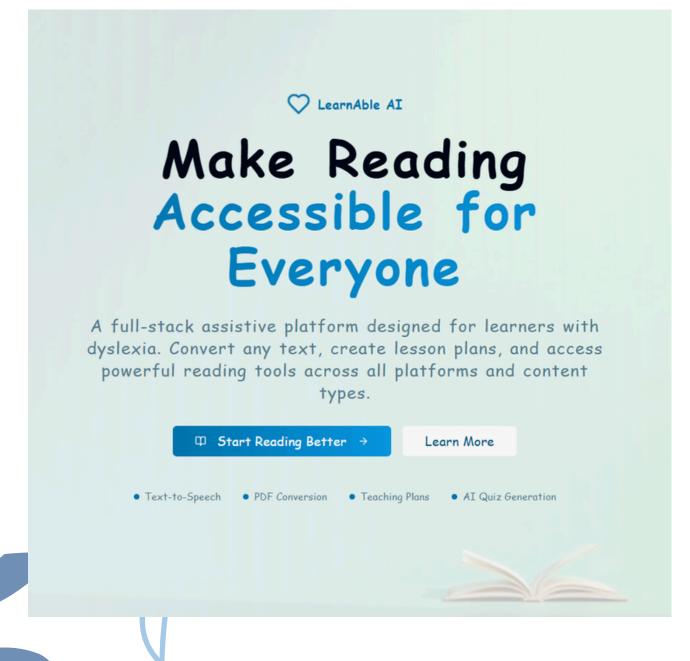


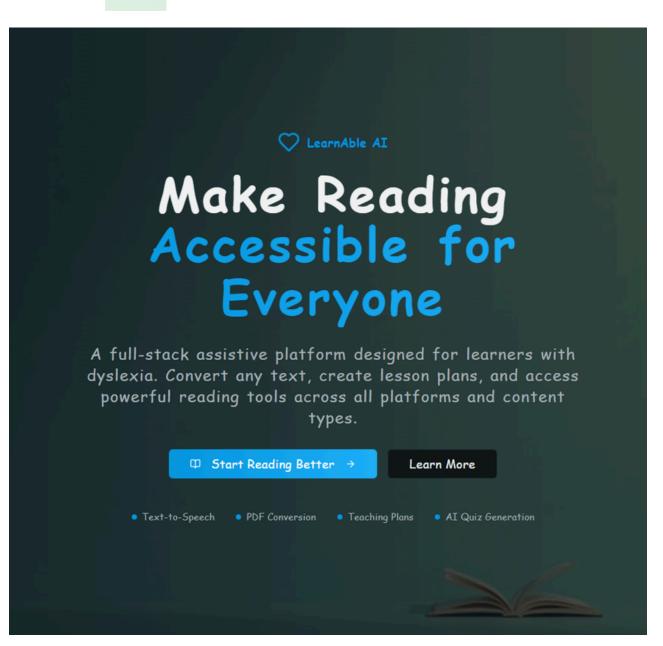


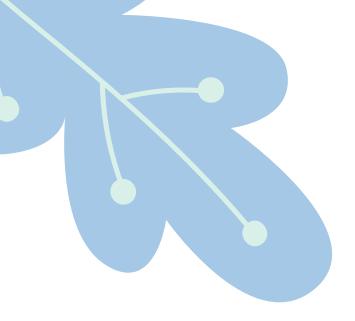
## MAIN PAGE:

- Gives description of what LearnAble AI is.
- Comes with a dark/light mode switch









## MAIN PAGE:

- **Teaching Plans & Methods:** Custom dyslexia-aware lesson plans with visuals.
- Text & PDF to Dyslexia-Friendly Format + TTS: Converts text with customizable fonts and reads it aloud with natural voice.

### Powerful Tools for Every Learning Style

Our comprehensive platform provides everything educators, students, and families need to make reading accessible and enjoyable for learners with dyslexia.



#### Teaching Plans & Methods

Generate custom dyslexia-aware lesson plans with multiple learning modes and visual aids



### Text & PDF to Dyslexia-Friendly Format with Advanced TTS

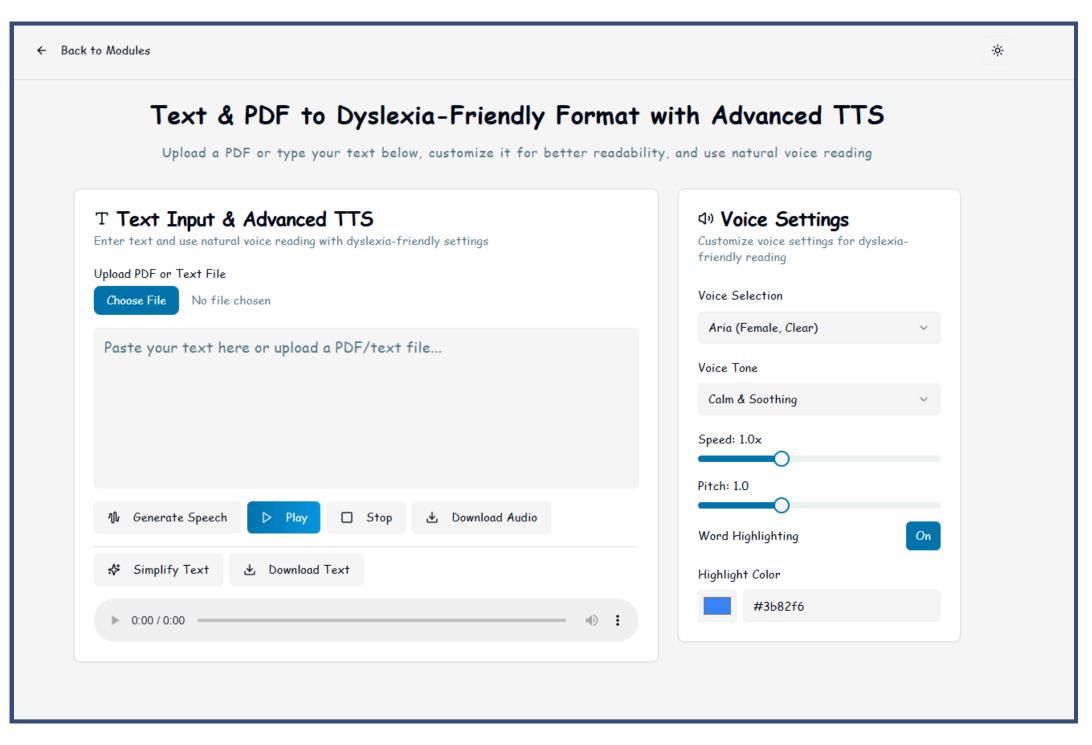
Convert any text or PDF to dyslexia-friendly format with customizable fonts, spacing, and natural voice reading







Page Layout:





• Text Before Simplification:

### T Text Input & Advanced TTS

Enter text and use natural voice reading with dyslexia-friendly settings

Upload PDF or Text File

Choose File

No file chosen

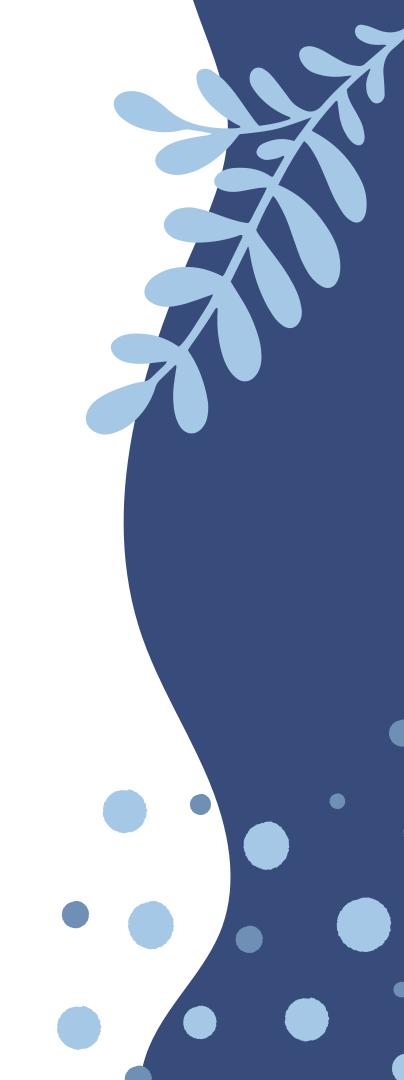
Triwizardathon

Where Professional Excellence Meets Innovation. Three Challenges. One Ultimate Champion.

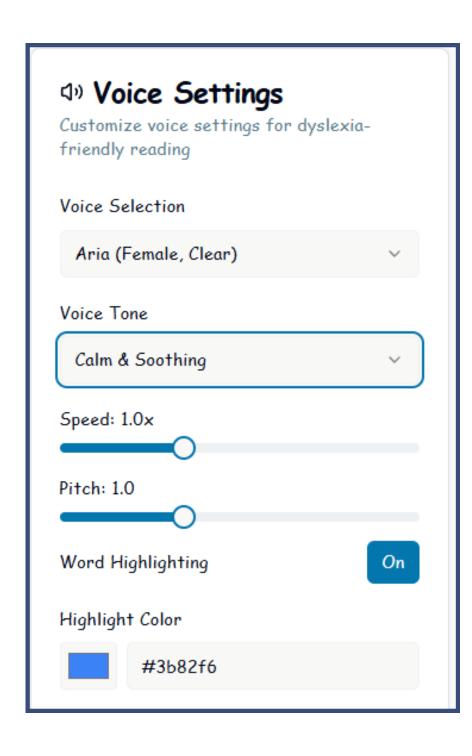
Elevate Your Development Journey to Legendary Status

• Text After Simplification:

	Letter Spacing: 1.2	Line Height: 1.8	Dyslexic Font
Three	tests. One	winner.	Show
off you	ur skills! W	/in the	
Triwiza	rdathon!		
<b>∥</b> Generate Speech	Play 🗆 S	5top <b>丛</b> Dowr	nload Audio
'			



Customizable voice settings along with word highlighting:

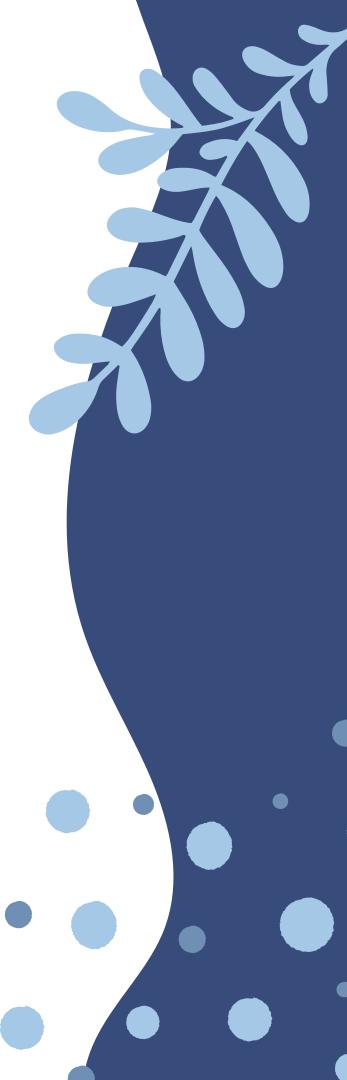


#### **Voice Selection:**

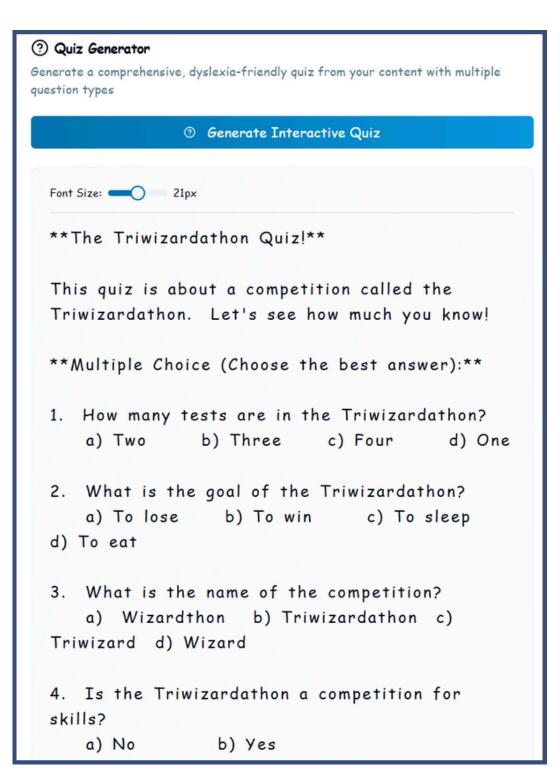
~	Aria (Female, Clear)
	Sarah (Female, Warm)
	Charlie (Male, Friendly)
	Liam (Male, Professional)
	Charlotte (Female, Gentle)

#### **Tone Selection:**





### • Quiz Generation:



\*\*Answer Key:\*\*

\*\*Multiple Choice:\*\*

1. b) Three

2. b) To win

3. b) Triwizardathon

4. b) Yes

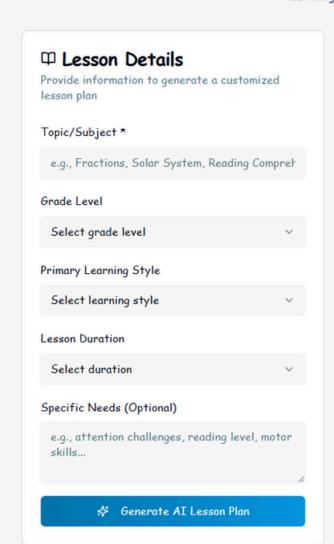
Visual Aids Section: Since the input text emphasizes "winning the competition", the system retrieved images of people receiving medals and trophies — reinforcing the message visually.

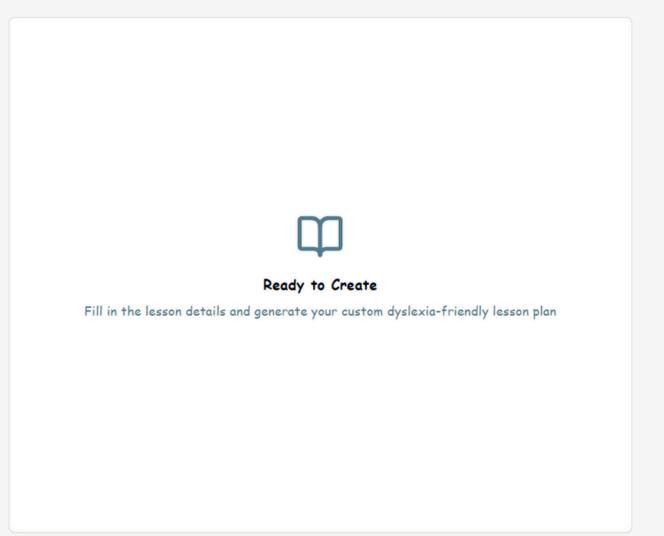


### • Page Layout:

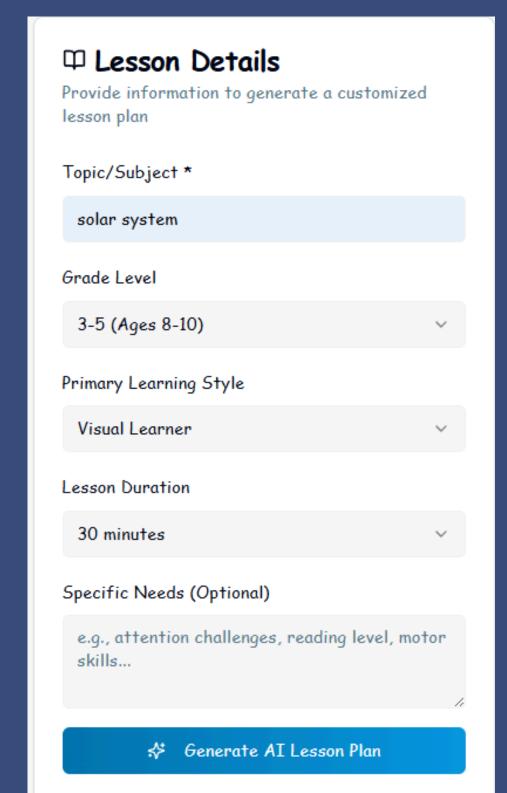
#### Teaching Plans & Methods

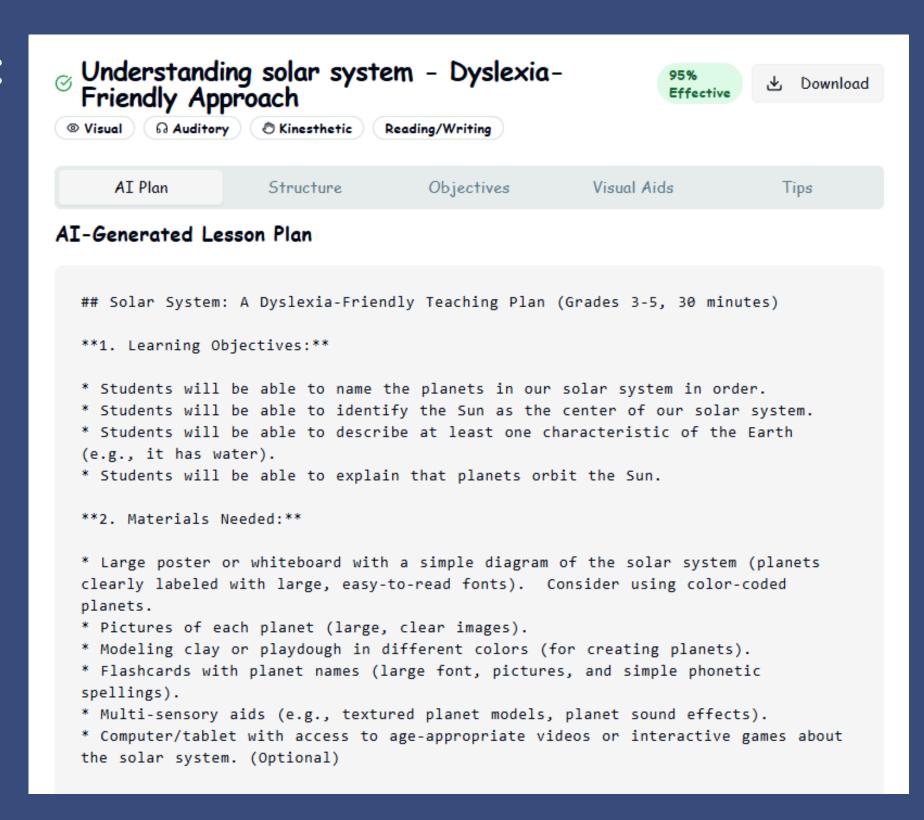
Generate custom dyslexia-aware lesson plans with evidence-based practices, multiple learning modes, and visual aids tailored to your students' needs.



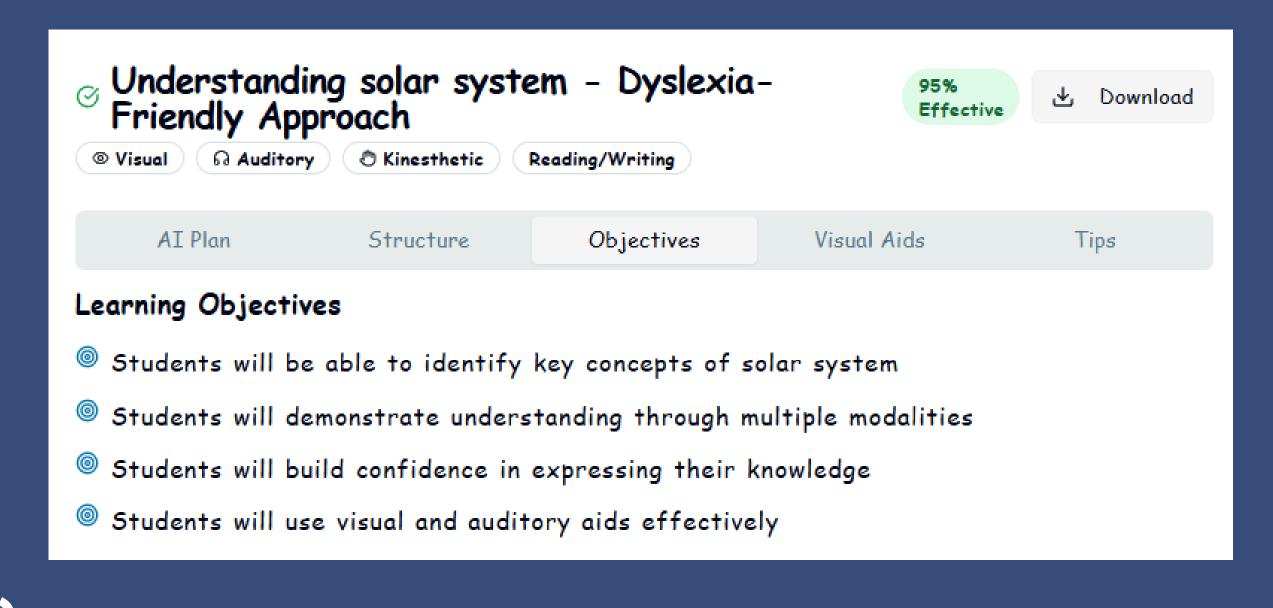


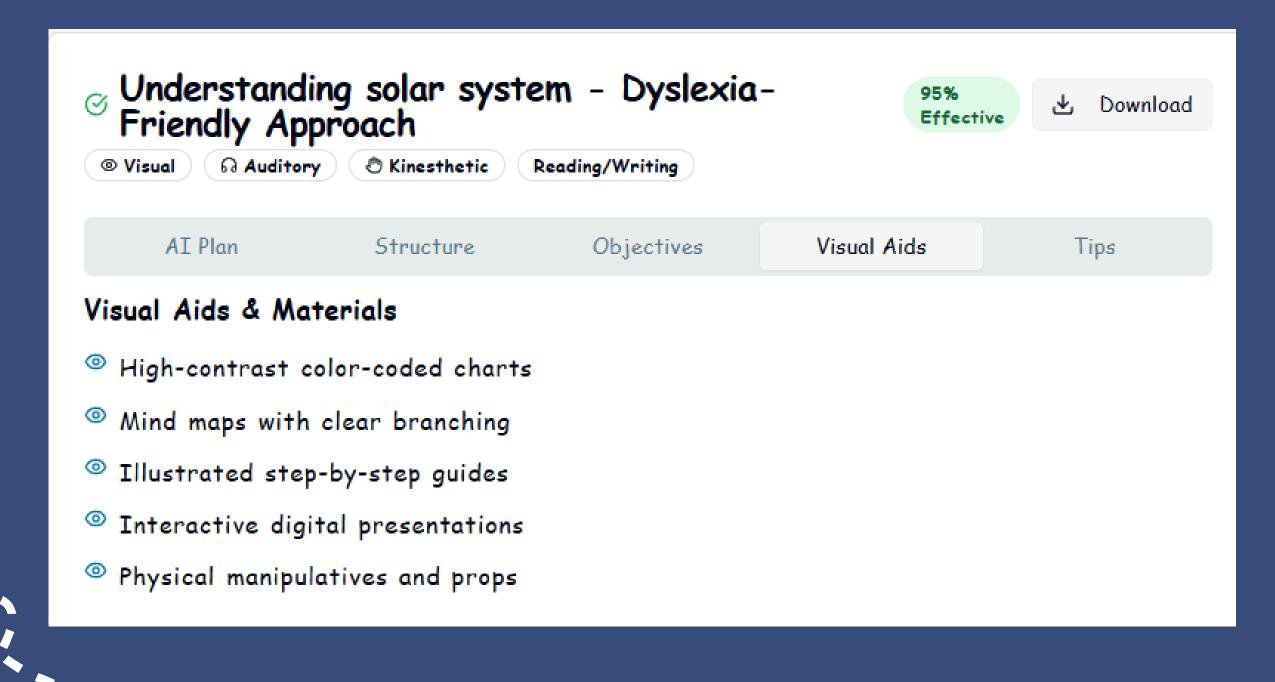
• Input Given:

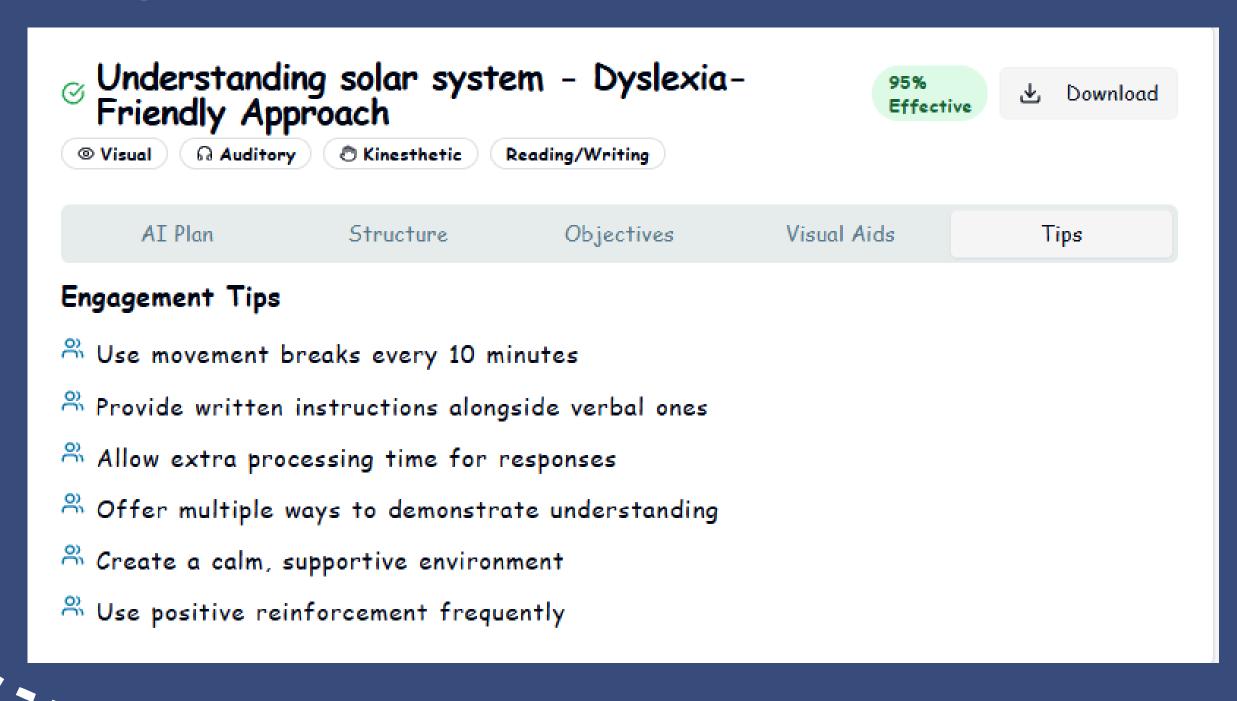












# CONCLUSION

- LearnAble AI is more than a tool it's a step toward inclusive, independent, and personalized education for learners with dyslexia.
- By combining AI-powered simplification, emotional TTS, visual aids, and adaptive teaching plans, we bridge the gap between accessibility and mainstream learning.
- Our mission is to ensure every student learns their way, without barriers, and with confidence.

→ Team Thunderbolts is committed to making learning a right, not a privilege.

