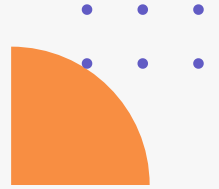


2020-2021 ANNUAL REPORT



Code to Enhance Learning



CONTENTS

- 01 ABOUT CODE TO
ENHANCE LEARNING
- 02 PROBLEM STATEMENT
- 02 SOLUTION
- 03 VISION & MISSION
- 04 JOURNEY
- 05 IMPACT
- 06 STUDENT CODING
PROGRAM
- 07 TEACHER CODING
PROGRAM
- 08 CS UNPLUGGED
CHALLENGE
- 09 CEL KIDS HACKATHON
- 10 TEAM
- 11 FINANCIALS
- 13 COLLABORATORS &
SUPPORTERS



ABOUT CODE TO ENHANCE LEARNING

Code to Enhance Learning is a non-profit organization based in Ahmedabad which uses coding as a tool to build 21st-century skills.

India envisions being the largest economy in the world. Children with higher 21st-century skills would play a crucial role in achieving this vision. However, children have poor 21st-century skills.

We offer an engaging, affordable, and confidence-building coding program to children to solve daunting problems using technology. Indirectly, we also create informed and invested parents and communities in the journey of building 21st-century skills in children.

We share an open-source skill-based coding curriculum, place CEL's trained facilitator in

classrooms or train and support in-house teachers and monitor the progress of children. We also give showcase opportunities to children to solve problems aligned to UN Sustainable Development Goals in front of industry experts and distinguished stakeholders.



PROBLEM STATEMENT

Children in age group of 10-15 lack engaging opportunities to build 21st century skills including critical thinking, creativity, collaboration and perseverance.

World Economic Forum Report 2016 identified 21st century skills as significant for children to thrive in the innovative world. Also, it shows a correlation of these skills with higher fundamental literacy and numeracy skills.

The poor ASER report of Gujarat and many other states shows poor literacy and numeracy skills and hence points towards poor 21st century skills. We all will find it hard to make India the largest economy for better livelihood and living conditions if children are not empowered with 21st century skills.

The root causes are lack of engaging resources and awareness about 21st century skills in parents and stakeholders

Lack of engaging opportunities for children in the age group of 10-15 to build 21st century skills



21st century skills
important for children to
thrive in the innovative
world*



Low 21st century
skills in low income
kids of developing
countries*



**Lack of awareness
& skill based
curriculum in India**

*WEF Report 2016

SOLUTION

We leverage coding as a tool to build critical thinking, creativity, collaboration and perseverance in children in grade 4-9 (age 10-15).

As per a research article on Frontier, leading open science platform, platform for coding significantly boosts the executive functions in children which are related to 21st century skills.

We create open-source skill based coding curriculum, place CEL's trained facilitator in classrooms or train and support in house teachers and monitor the progress of children. We organize national level Hackathon to give showcase opportunities to children. Children solve problems aligned to UN Sustainable Development Goals in front of industry experts and distinguished stakeholders.

Our program leverages open source technologies like Scratch, JavaScript and other web development framework to make the program affordable.

Children have higher engagement, increased confidence in solving daunting problems using technology and programs are less costly. Indirectly, we also create informed and invested parents and communities in the journey of building 21st century skills in children.

In short term, children will code games and application on different programming platforms to express and solve contextual problems to build critical thinking, creativity, perseverance and collaboration. In long term, children will grow into a pool of change makers who are aware of contextual/global problems and have innovative skills to solve problems to make world better place.

As per research by Keep Connected Program, children at the age, from age 10-15, are developing reasoning and critiquing abilities at a faster pace. They start developing a liking towards any particular field and develop personalities. Strong support can help them develop the confidence they need to make positive choices as they sort out who they are and how they fit with others.

Leverage coding as a tool to build critical thinking, creativity, collaboration and perseverance



2.5 times more children from low-income countries ask for access to digital devices**

**Children in Digital World, A UNICEF's 2017 report



Coding activities accelerates the executive function in children***

***Research article on Frontier, a leading science platform

VISION

Children in India leverage technology to solve contextual problems and thrive in the innovative world.



MISSION

Our mission is to empower schools/organizations to bring coding to children.



JOURNEY



2018

Designed 55 hours of open source curriculum and successfully implemented with 1396 children

2019

Designed 25 hours of open source curriculum and successfully implemented with 1783 children

April-July 2020

Designed series of 10 videos to help kids learn computational concepts to create contextual animations, games and applications and create web page and applications to express and solve problems using HTML_CSS_JavaScript.

July 2020

Selected for UnLtd Incubation Program

August-October 2020

Organized CEL CS Unplugged Challenge , a weekly challenge for kids in grade 6-9 to master Computer Science (CS) concepts to build creativity, critical thinking and 21st century skills.

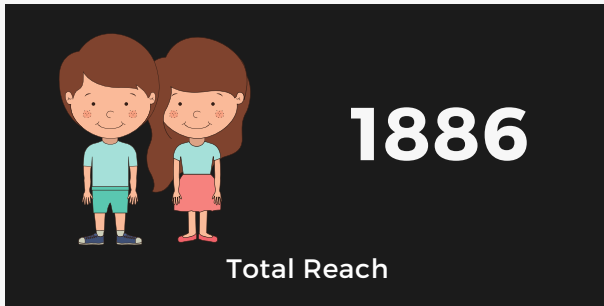
November 2020- February 2021

Organized National Level coding competition called CEL Kids Hackathon 2021 to help kids showcase their coding talent

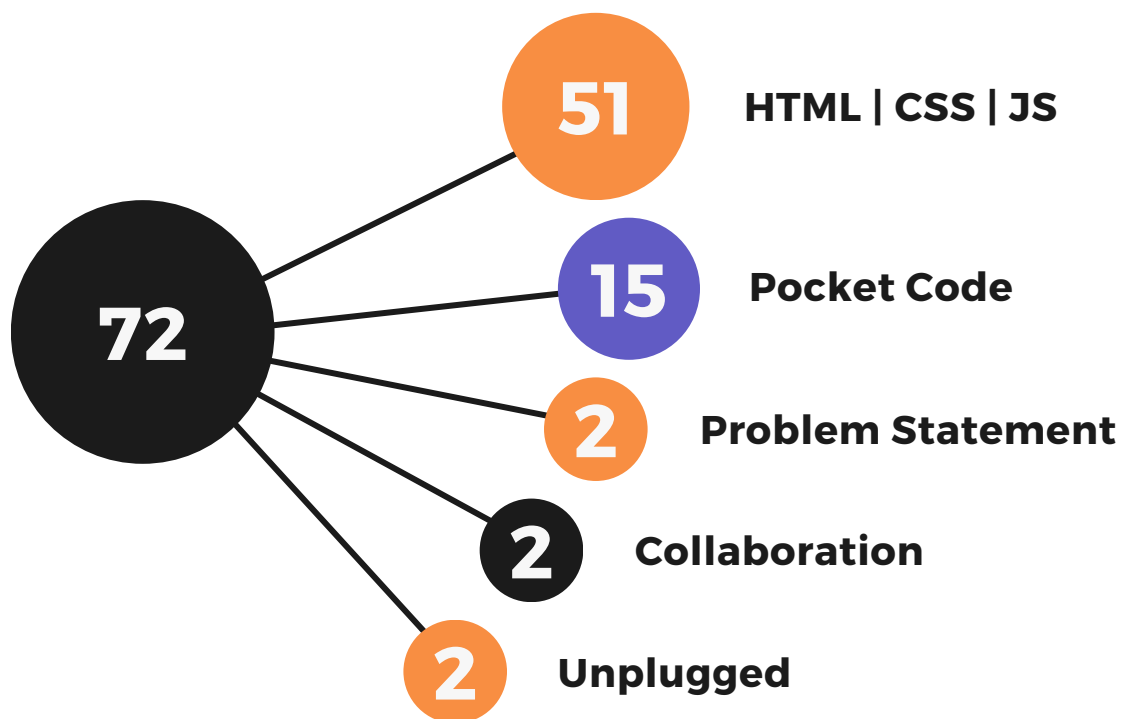
March 2021

In a survey conducted about CEL Kids Hackathon, all schools were willing to participate in CEL Kids Hackathon in 2020 and 80+ % found the competition helpful to learn coding

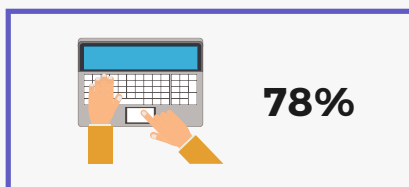
IMPACT



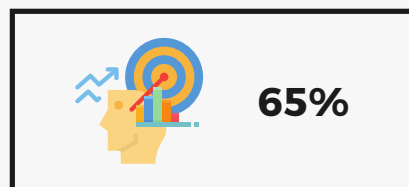
Total Hours of Open Source Curriculum



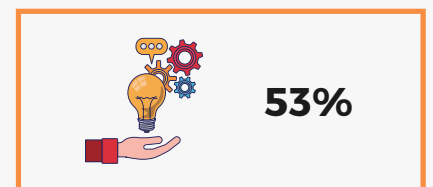
Improvement of students performance on our metrics



Technology Awareness



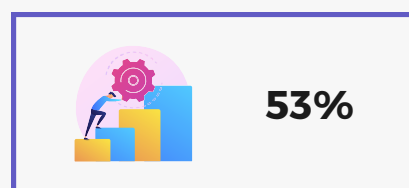
Critical Thinking



Creativity



Collaboration



Perseverance

STUDENT CODING PROGRAM



CEL Student Coding Program is a well-crafted program designed for students. The goal is to empower them to use coding as a medium of self expression and problem solving. The Expert Facilitator of CEL works directly with students to create amazing learning experiences for children.



93

kids built 21st century skills with the help of
CEL's expert facilitators

TEACHER CODING PROGRAM

CEL Teacher Coding Program is a well-crafted program designed for teachers. The goal is to empower them to facilitate coding sessions for children in grade 4-9. They get access to researched curriculum and engaging pedagogies and are trained to deliver them effectively and efficiently. Moreover, they get access to assessment tools which help them to gain more insights about the children, analyse and make changes for higher learning outcomes. It saves time and energy spent on making and conducting assessments.

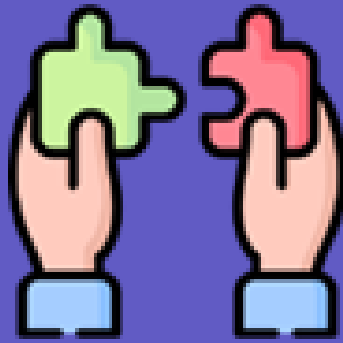


50

In-house teachers empowered to teach coding



CS UNPLUGGED CHALLENGE



CEL CS Unplugged Challenge for kids is a weekly challenge for kids from grade 6-9 to master CS concepts to build 21st century skills.

1113

kids learned CS concepts to built
21st century skills





CEL KIDS HACKATHON

CEL Kids Hackathon is an annual collaborative coding event for students in grades 5 to grade 9 to help them begin their coding journey and showcase their coding talent. The students would be required to participate in pairs. Children would be given a problem statement aligned to UN Sustainable Development Goals for which they have to create a project on Scratch if they have access to a computer or Pocket Code if they have access to Smartphone.



630

kids showcased their coding talent by solving contextual problems aligned to UN Sustainable Development Goals.

TEAM



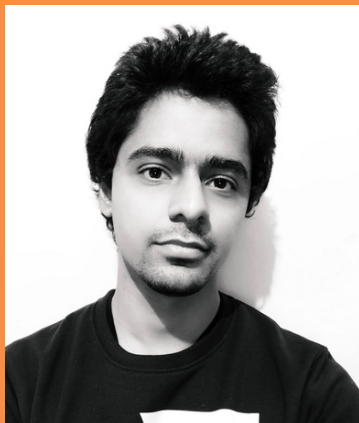
Irfan Lalani
Founder



Neha Chalana
Program Implementation
Associate



Sanober Kadri
Program Implementation
Associate



Sourav Singh
Curriculum Development
Associate



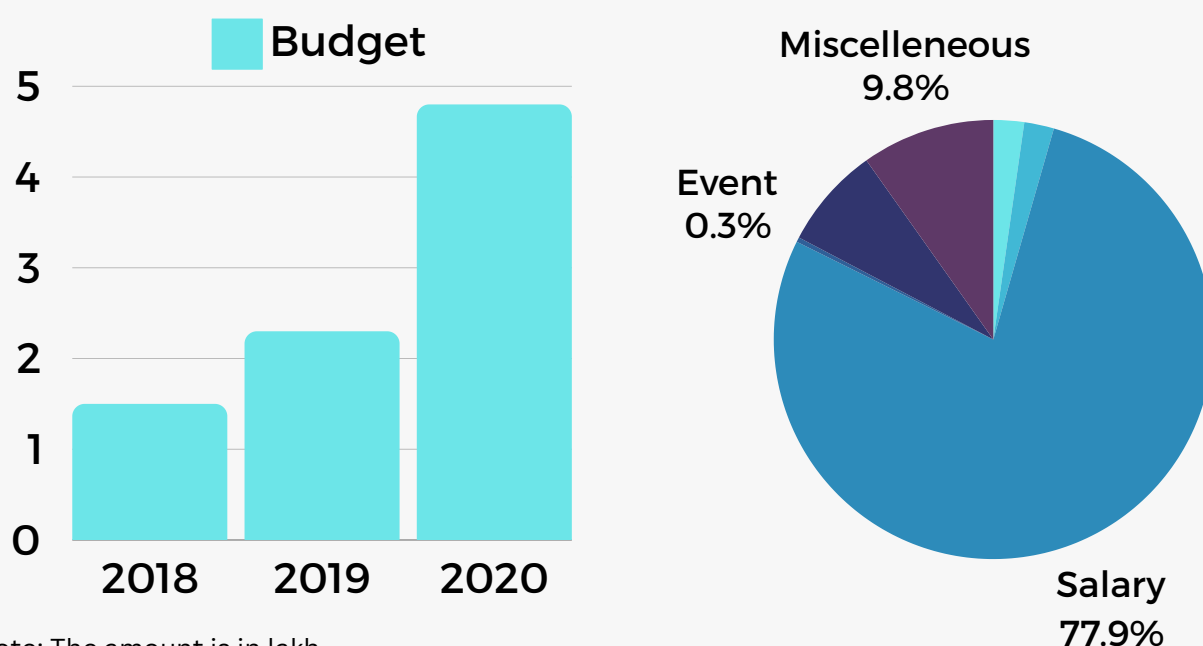
Zain Abbasi
Operation Intern



FINANCIALS

In the fiscal year 2018, the organization operated with a budget of ₹1.4 lakh. This increased to ₹2.3 lakh in 2019, reflecting a 64% growth. By 2020, the budget further expanded to ₹4.86 lakh, representing a 111% increase from the previous year.

The largest portion of the budget was allocated to salaries, which accounted for ₹3,79,095, highlighting our investment in human resources. Traveling expenses were ₹36,488, facilitating operational mobility and outreach activities. Miscellaneous expenses, totaling ₹47,751, covered various essential and unplanned expenditures.



Note: The amount is in lakh

Stationery costs amounted to ₹10,661, necessary for administrative functions, while accounting costs were ₹11,000, ensuring financial accuracy and compliance. Events, crucial for community engagement, accounted for ₹1,680. This distribution of expenses reflects our strategic focus on operational efficiency, personnel investment, and effective service delivery.

This consistent financial growth underscores our commitment to scaling operations and achieving long-term goals. The increased budgets over these years have enabled us to enhance service delivery, invest in infrastructure, and better serve our community and stakeholders, while strategically managing expenses to support our operational efficiency and effectiveness.

COLLABORATORS & SUPPORTERS





Code to Enhance Learning

THANK YOU

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