Codingal
Where kids love AI & coding

Grade 9-10

Hello ! Young Coders

Get ready to fall in love with AI & coding

Accredited by

STEM.ORG ACCREDITED EDUCATIONAL EXPERIENCE™

Excellent by

★ Trustpilot

Backed by

Y Combinator

python™

pygame

JS

GitHub

B

CO

CSS 3

pandas

HTML 5

seaborn

About Codingal

Our Mission: To inspire kids and teens to fall in love with AI & coding

Codingal is a leading online after-school where kids & teens learn AI & coding from expert instructors through live, interactive classes. Our mission is to build the world's largest & most loved programming school for kids & teens, powered by human & AI tutors.

All our instructors come from Computer Science background, and they are rigorously vetted and trained. Every student gets a personalized learning path and individual attention in 1:1 private classes or small group classes with expert instructors. Students learn by building apps, games, animations, and websites in a fun & engaging way.

Kids find Codingal very fun & engaging. They have rated teachers at 4.9 out of 5. Curriculum content is rated at 4.8 out of 5.

Codingal is on a mission to inspire kids to fall in love with AI & coding, and provide the right education to them who will be able to create anything they can imagine and build the future when they grow up to become entrepreneurs, engineers, and scientists.

Codingal empowers kids to become innovators of the future

Why should kids learn AI & Coding?

Coding is the new literacy : Technology has become a core part of our lives, powering everything from websites to smart gadgets. With AI increasingly shaping the future, teaching kids coding and AI prepares them to thrive in a tech-driven world. These skills enable kids to innovate, solve problems, and succeed in a rapidly evolving landscape.

What are the benefits of learning AI & Coding?

Develops problem-solving skills

Boosts analytical and data-driven thinking

Enhances creativity and imagination

Encourages innovative real-life solutions

Builds resilience and adaptability

Why this curriculum?

Accredited by STEM.org

Rated 4.5 out of 5 by students and parents on Trustpilot

Based on BIDE (Broad, Inspiring, Deep and Efficient) model

Focus on STEAM (Science, Technology, Engineering, Arts, Math) subjects

Enhances cognitive, logical, and computational skills

Makes learning highly effective, interactive, and fun

Why learning to code is essential for every child in the age of AI

AI development requires coding

Building AI requires coding, which provides instructions to make the system function properly, ensuring everything runs smoothly and behaves as intended.

Augmenting human creativity

AI serves as a powerful tool for enhancing creativity, helping creators but still relying on human direction to produce unique and meaningful results.

Coding as a foundation for AI literacy

Learning to code is essential for understanding technology, enabling effective communication with computers and empowering individuals to create and innovate.

New jobs & industries

The rise of AI creates new opportunities in various fields, from developing AI tools to maintaining and improving systems, generating demand for skilled professionals.
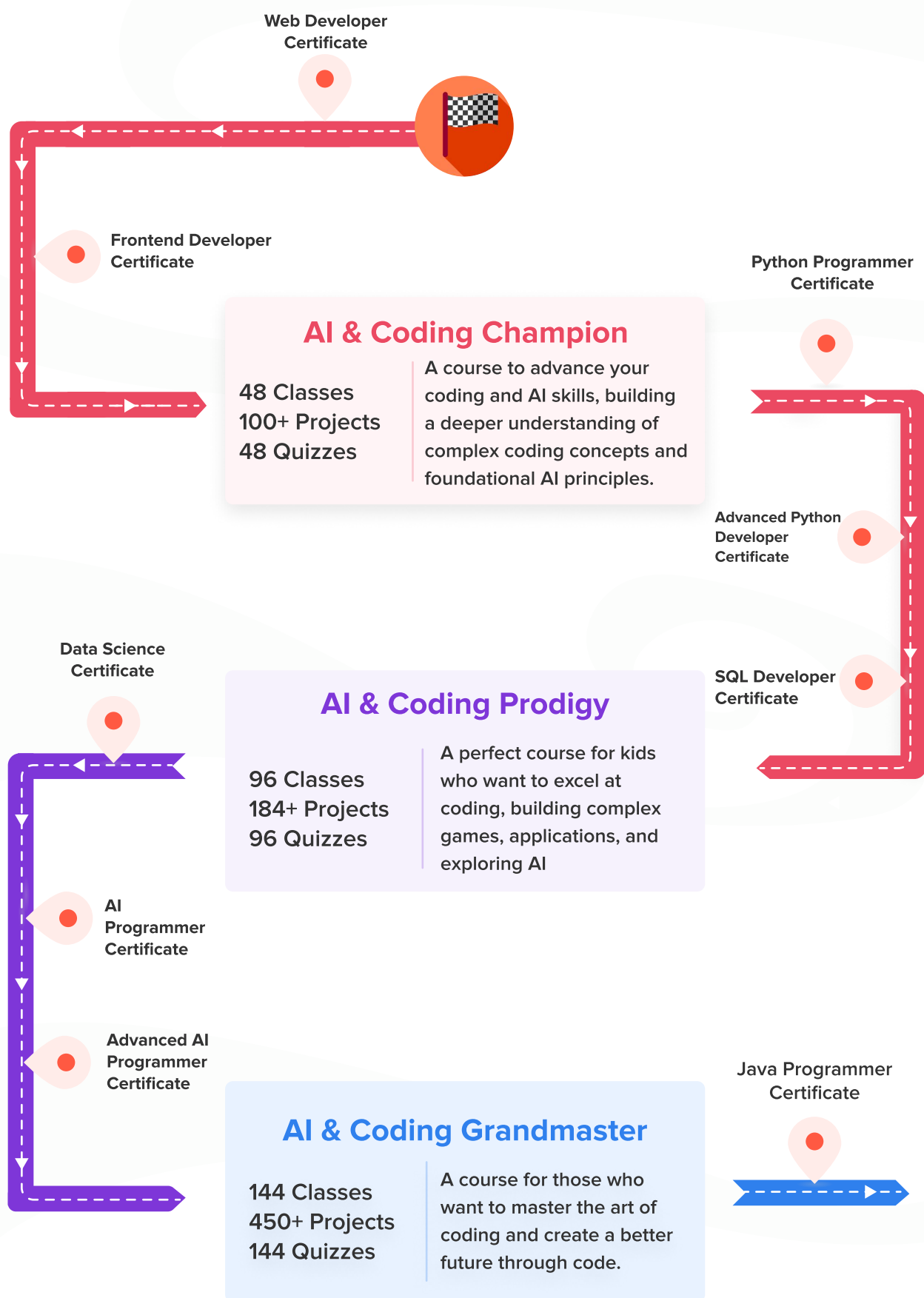
No-code/low-code platforms

No-code platforms simplify building applications with drag-and-drop tools, but coding knowledge is necessary for creating more customized, complex features and designs.

Student's learning journey

Web Developer Certificate

Frontend Developer Certificate

Python Programmer Certificate

AI & Coding Champion

48 Classes
100+ Projects
48 Quizzes

A course to advance your coding and AI skills, building a deeper understanding of complex coding concepts and foundational AI principles.

Advanced Python Developer Certificate

Data Science Certificate

AI & Coding Prodigy

96 Classes
184+ Projects
96 Quizzes

A perfect course for kids who want to excel at coding, building complex games, applications, and exploring AI

SQL Developer Certificate

AI Programmer Certificate

Advanced AI Programmer Certificate

Java Programmer Certificate

AI & Coding Grandmaster

144 Classes
450+ Projects
144 Quizzes

A course for those who want to master the art of coding and create a better future through code.

Earn AI & Coding certificates with STEM.org accreditation

1 Champion

2 Prodigy

3 Grandmaster

10+ Additional certificates in the entire learning journey

AI & Coding Grandmaster

Discover the power of coding through this comprehensive course! From web design and app development to AI and data science, it equips learners with essential skills to create innovative, real-world digital solutions.

144 Classes
350+ Projects
144 Quizzes

Key learnings

- ✓ Design and develop responsive websites
- ✓ Build dynamic apps with Python & JavaScript
- ✓ Perform data analysis & visualization
- ✓ Explore ML & neural networks
- ✓ Master development using Flask and Java

Top achievements

- ✓ Create interactive web pages
- ✓ Build Python-based projects
- ✓ Design models using neural networks
- ✓ Develop applications using Flask
- ✓ Capstone projects using advanced skills

Module 1
Front-End Development

Learn about basics of web, and create your own webpages using HTML.

Language:
HTML

Platform:
VS code & Github

6 Lessons & 20+ Projects

Personal Form   **Drop Down**

Module 2
Webpage Styling

Understand the fundamentals of CSS, including how to style, align, and position elements for attractive web designs.

Language:
CSS

Platform:
VS code & Github

6 Lessons & 20+ Projects
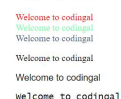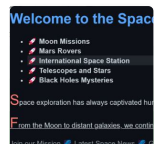
Typography   **Space Explorers Club**

Module 3
Web App Development

Learn about bootstrap which will help to make the website responsive. Use numerous HTML and CSS templates for UI interface elements.

Language:
HTML CSS

Platform:
VS code & Github

6 Lessons & 20+ Projects

Containers   **Carousel**

Unlock Web Developer Certificate

AI & Coding Grandmaster

Module 4
Advanced Front-end Development - I

Get introduced to JavaScript programming. Learn to add interactive behaviours to a webpage using Javascript.

Language:
HTML CSS JS

Platform:
VS code & Github

6 Lessons & 25+ Projects

Loops in Js

HTML DOM

Module 5
Advanced Front-end Development - II

Get ready to add extraordinary behaviours to your web pages through advance concepts of JavaScript.
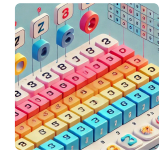
Language:
HTML CSS JS

Platform:
VS code & Github

6 Lessons & 25+ Projects

Error Handling in Js

Array Methods

Module 6
Capstone Project

Create your own website using HTML, CSS and Javascript.

Language:
HTML CSS JS

Platform:
VS code & Github

6 Lessons & 5+ Projects

Calculator using JS
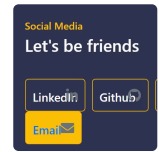
Social Media

Unlock Frontend Developer Certificate

Module 7
Python Basics

Learn about Python basics including conditional statements, loops and functions.

Language:
Python

Platform:
VS code & Github

6 Lessons & 25+ Projects
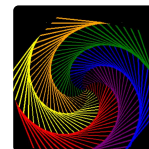
Rainbow Spiral

Star Pattern

Module 8
Advanced Python

Learn about Python data structures and Object Oriented Programming.

Language:
Python

Platform:
VS code & Github

6 Lessons & 25+ Projects
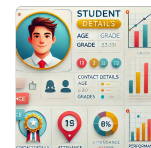
Student Details

Library Management System

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Module 9
Python Specialization

Get introduced to File Handling and Python library Tkinter that can help create GUI applications.

Language:
Python

Platform:
VS code & Github

6 Lessons & 20+ Projects

File Handling

Denomination Calculator

🎓 **Unlock Python Programmer Certificate**

Module 10
Data Structures - 1

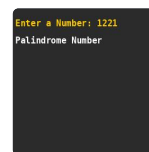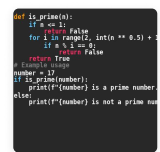Work on different Python problems to build strong Mathematical Logic.

Language:
Python

Platform:
VS code & Github

6 Lessons & 20+ Projects

Palindrome Number

Check if Prime

Module 11
Data Structures - 2

Learn about bit-wise operations to use it to improve your code's efficiency.

Language:
Python

Platform:
VS code & Github

6 Lessons & 20+ Projects
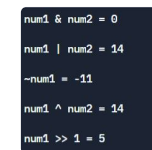
Ones and Zeros

Two Odd Occurring

🎓 **Unlock Advanced Python Developer Certificate**

Module 12
SQL using python I

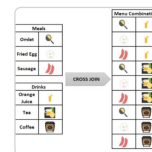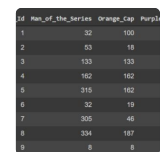Learn about SQL, its syntax, and its commands.

Language:
Python

Platform:
VS code & Github

6 Lessons & 15+ Projects

Joins

Query Inside Query

Module 13
SQL using python II
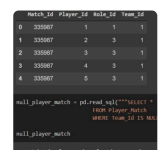
Learn about Advance features in SQL.

Language:
Python

Platform:
VS code & Github

6 Lessons & 15+ Projects

Guess the Database

Match the Tables

🎓 **SQL Developer Certificate**

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Module 14
Introduction to Data Science
Learn about Data Science and the commonly used libraries of Python-like Numpy, Pandas, Matplotlib and Seaborn.

Language:
Data Science

Platform:
Google Colab

6 Lessons & 10+ Projects

Weather Data Visualization

Housing Rent Prediction

Module 15
Data Visualization
Learn how to draw insights from data using visualization in Python.

Language:
Python

Platform:
Google Colab

6 Lessons & 10+ Projects

Data Cleaning

Population Growth

Module 16
Introduction to Statistics
This module introduces essential statistical concepts and techniques, helping learners analyze data through real-world projects.
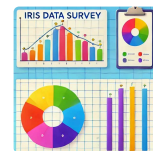
Language:
Data Science

Platform:
Google Colab

6 Lessons & 15+ Projects

Titanic Survival Prediction

Iris Data Survey

Unlock Data Scientist Certificate

Module 17
Introduction to Probability
This module explores fundamental probability concepts, rules, and distributions, building a strong foundation for data science.

Language:
Data Science

Platform:
Google Colab

6 Lessons & 20+ Projects

Pick a Ball

Rain Expectation

Module 18
Machine Learning - 1
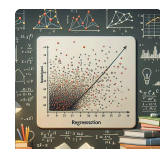Learn about the basics of machine learning, its types and Regression.

Language:
Python

Platform:
Google Colab

6 Lessons & 10+ Projects

Data Preprocessing

Regression Analysis

Module 19
Machine Learning - 2
Learn about Classification and Recommendation Systems.

Language:
Python

Platform:
Google Colab

6 Lessons & 10+ Projects

Logistic Regression

Movie Recommendation System

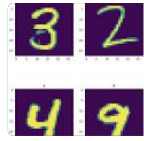**Unlock AI Programmer Certificate**

AI & Coding Grandmaster

AI

Module 20
Deep Learning - 1

Get introduced with Deep Learning and Neural Networks.

Language:
Python

Platform:
Google Colab

6 Lessons & 10+ Projects

Digit Recognizer   **Quick Draw**

AI

Module 21
Deep Learning - 2

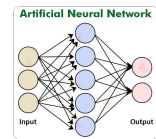Learn how to work with Image data and build Image Classifiers.

Language:
Python

Platform:
Google Colab

6 Lessons & 10+ Projects

Image Classifier   **Artificial Neural Network**

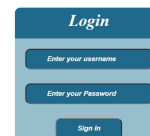🎓 **Unlock Advanced AI Programmer Certificate**

Module 22
Deployment Basics

Get introduced with Flask and basic functionalities to create basic deployed web pages.

Language:
Python

Platform:
Google Colab

6 Lessons & 10+ Projects

Login Page   **Weather App**

Module 23
Java Programming - 1

Get started with basic concepts of Java Programming like - loops and conditional statements.

Language:
Java

Platform:
VS code & Github

6 Lessons & 25+ Projects

Hey Java!   **Mind Riddler**

Module 24
Java Programming - 2

Learn more about the OOPS concepts like encapsulation and polymorphism and also exception handling

Language:
Java

Platform:
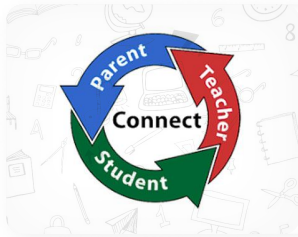VS code & Github

6 Lessons & 15+ Projects

Objects in Java   **Interface in Java**

📚 **Unlock Java Programmer Certificate**

Top 10 benefits of learning at Codingal

1. Regular PTM

Great opportunity for parents and teachers to open two-way communication and to share insights and information for the holistic development of a child.

2. Regular doubt session

After every module solve all your queries in this personalized session. The toughest problems addressed – concepts revised and doubts cleared!
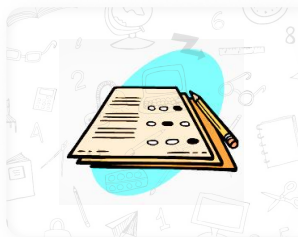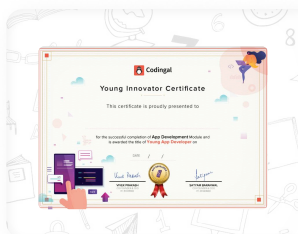
3. Engaging quizzes

Quizzes are fun and help us remember important facts. These well-targeted and tailor-made quizzes will boost self-esteem and confidence among kids.

4. Thrilling competitions

Regular competitions are conducted to encourage students to showcase their skills and develop their ideas.
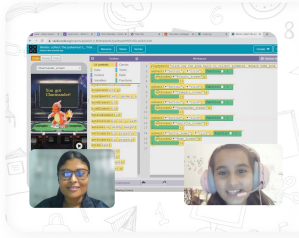
5. Learning Certificates

Show the world what you can do with a certificate for every amazing skill you master.

Top 10 benefits of learning at Codingal

6. Live personalized classes

Understand concepts faster with personal attention from teachers. Learn coding from highly qualified teachers trained to make learning effective and impactful.
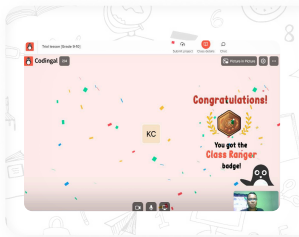

7. Lifetime access to class videos

Forgot what was taught in the last class? No worries. Watch the recorded class video anytime to refresh your memory.
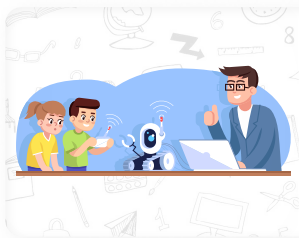

8. Lifetime access to resources

Get lifetime access to our exclusive learning content including DIY sheets, videos, and other resources.

9. Gamified learning

Codingal makes learning fun with gamification. Students can take quizzes or complete projects to earn points, badges, and rewards.

10. After class projects

For each class, students have the opportunity to complete an after-class project, enabling them to apply what they've learned, test their skills, and receive valuable feedback from their teacher.

Students and parents love Codingal

Ray
Japan

" I love learning with Codingal. It's always fun and the teacher is nice and kind.

Lavanya
India

" The courses develop multiple skills and ensure maximum clarity of coding concepts.

Billie
Kenya

" Codingal classes are so much fun. I've started to really enjoy creating things with code.

Elara Dalton
USA

" I referred Codingal to my friend, and now we're both into coding! She joined the classes too. Plus, Codingal gave me a whole month of free coding classes.

★ **Trustpilot**
★★★★★
TrustScore **4.8** | **425** reviews

Google
★★★★⯨
4.6 out of 5

facebook
★★★★★
5 out of 5

Unlock your child's potential in Math & Science with AI and Coding

In Science, AI and Coding enable simulations and data analysis. Students use AI models to predict outcomes in biology, chemistry, and climate science, learning how coding drives scientific discovery and accelerates problem-solving in real-world applications.

Learning AI and Coding help students apply mathematical concepts like linear algebra and statistics to real-world problems. Coding AI models allows them to visualize math, make predictions, and see how math powers data analysis and decision-making.
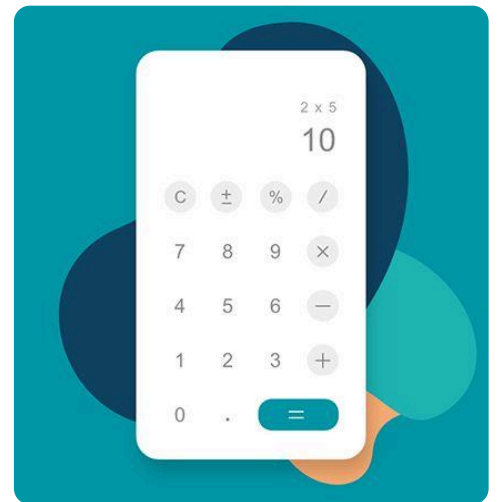
Our teachers provide individual attention to kids, customize projects based on their interests and make them fall in love with AI & Coding, enabling them to also perform well in other subjects in school.

Foundation of Codingal's curriculum

BLOOM

Bloom's Taxonomy is a standard guideline for K-12 content development, which includes 6 stages of learning: Remember, understand, apply, analyze, evaluate and create.

BIDE

The BIDE (Broad, Inspiring, Deep and Efficient) model has been developed by Codingal in-house to ensure that our curriculum caters to the unique learning style of every child.

STEAM

STEAM is an approach to learning that uses Science, Technology, Engineering, the Arts and Mathematics as access points for guiding student inquiry, dialogue, and critical thinking.

Covers K-12 Computer Science Framework compliant

AI & Coding - Gateway to success in the future

"

Now is a great time to be entering the coding world because technology will change more in the next 10 years than it has in the last 50.
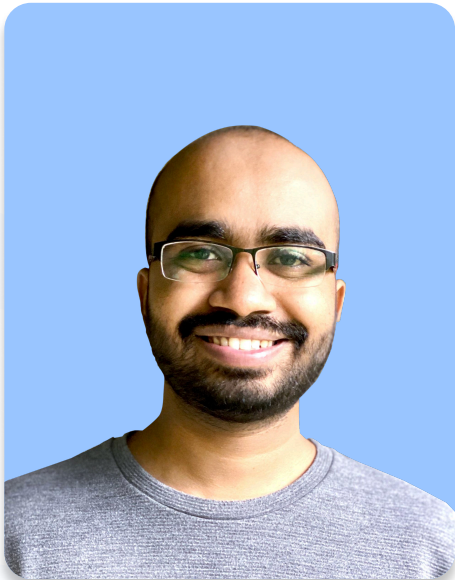
- Bill Gates

"

Whether you want to uncover the secrets of the universe, or you just want to pursue a career in the 21st century, basic computer programming is an essential skill to learn."

- Stephen Hawking

A note from Codingal Founders

Teaching coding and AI to kids is a profound responsibility. Our dedicated educators and meticulously crafted curriculum reflect our deep understanding and commitment to nurturing future innovators.

Vivek Prakash

Co-founder & CEO
B.Tech & M.Tech, IIT Roorkee

in LinkedIn

Learning to code is not just about reaching new heights like going to Mars or the moon. Coding, along with AI, equips kids with the skills to think critically and creatively, empowering them at multiple levels.

Satyam Baranwal

Co-founder & COO
B.Tech, IIT Dhanbad

in LinkedIn

Begin your child's AI & coding journey today

Is your child ready for the future?

Visit www.codingal.com

Try a free lesson!

Thank You

Built by alumni of

Google   amazon

IIT Roorkee   IIT Dhanbad

In partnership with

IIT Bombay   IIT Guwahati

Hewlett Packard
Enterprise

BITS Pilani

Accredited by STEM.org

STEM.ORG
ACCREDITED
EDUCATIONAL EXPERIENCE

Backed by

Y Combinator   R REBRIGHT PARTNERS

Got questions? Contact us anytime.

Send us a message

✉ support@codingal.com

Codingal
Where kids love AI & coding