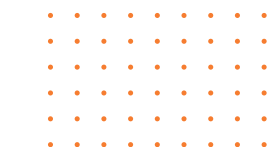
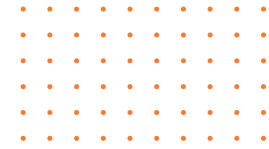




Tech Learniversity

AI PROGRAM

QUALITY EDUCATION FROM QUALITY PEOPLE



PROGRAM NAME

AI PROGRAM FOR SCHOOL KIDS

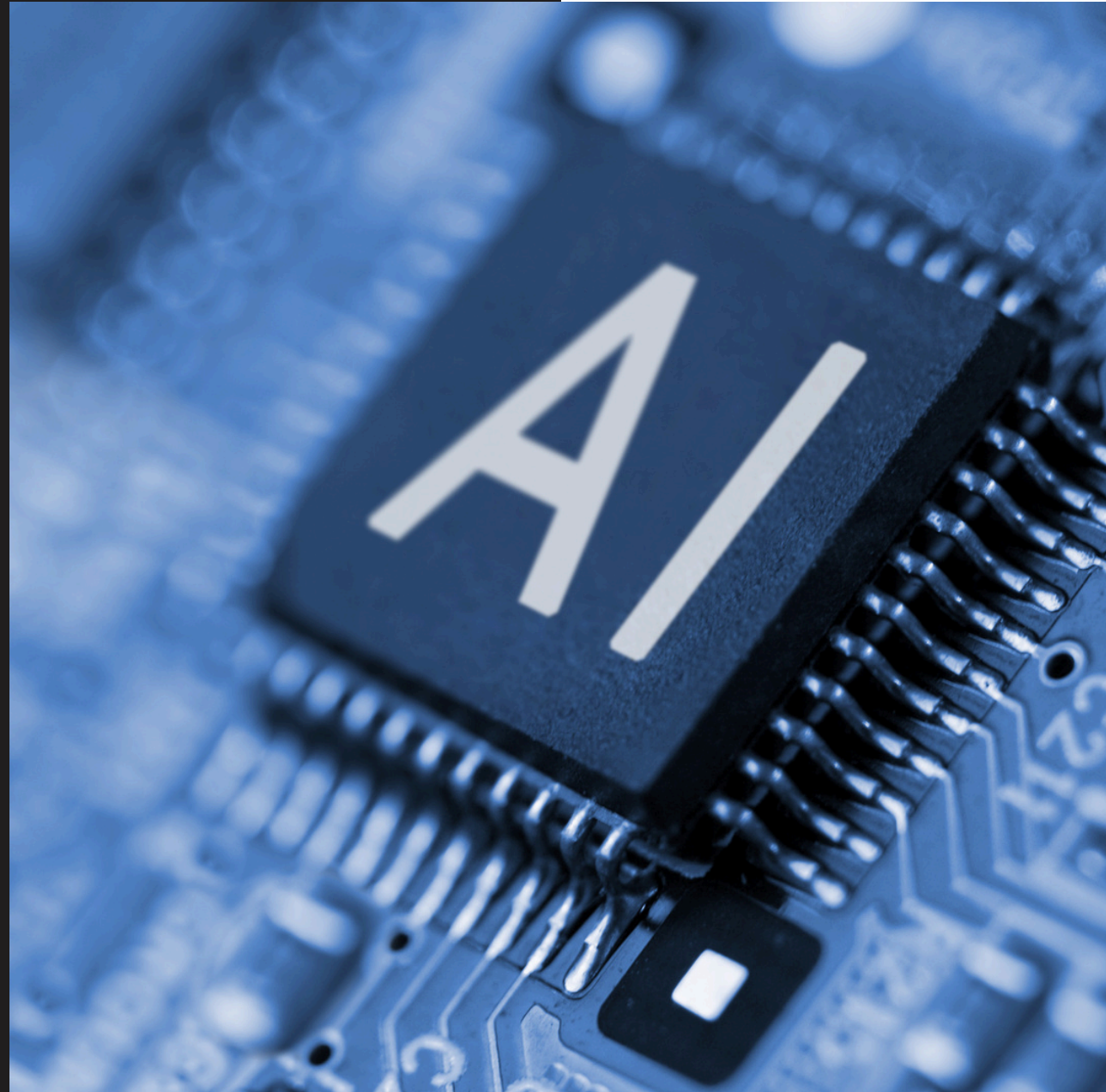
QUALITY EDUCATION FROM QUALITY PEOPLE





PROGRAM OVERVIEW

The AI Curriculum for School Kids is a 5-level structured program spanning 120 sessions (1 hour each) that introduces learners to Artificial Intelligence (AI), coding, machine learning, NLP, computer vision, IoT, cloud AI, and Generative AI. The program starts with fun storytelling and Scratch games (Level 1), advances to Python coding (Level 2), applies machine learning (Level 3), explores advanced AI domains like NLP and CV (Level 4), and culminates with a Capstone Showcase of group AI projects (Level 5). Each level ends with mini-projects and presentations, ensuring hands-on, project-based learning. By Level 5, students are equipped with portfolio-ready projects and future-ready AI skills.



PROGRAM DURATION

- Total: 120 Sessions (1 hour each = 120 hours)
- Levels: 5 Levels (24 sessions each)
- Format: Online Instructor-led, project-based

Program Goals

- Spark curiosity about AI from a young age
- Build hands-on coding and AI project skills step by step
- Teach responsible AI practices (ethics, fairness, safety)
- Develop problem-solving, creativity, and presentation skills
- Gradually prepare students for futuristic AI careers and higher studies



SYLLABUS

LEVEL 1: INTRODUCTION TO AI (24 HOURS)



Goal: Build curiosity, understand AI basics, and explore fun AI tools.

Students learn foundational AI concepts, Scratch coding, simple models with Teachable Machine, and complete their first AI mini project.

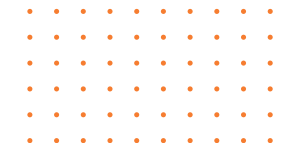
DETAILED SYLLABUS (LEVEL 1: INTRODUCTION TO AI – 24 HOURS)

1. Introduction – What is AI? (everyday examples)
2. AI Around Us – Mobile, games, shopping
3. History of AI – Storytelling with timeline
4. Types of AI – Narrow, General, Super AI
5. What is Data? (numbers, text, images)
6. Classroom Data Activity – Collecting examples
7. How Computers Think – Algorithms explained simply
8. Activity: “If-Else” decision game
9. AI in Daily Life – Healthcare, education, transport
10. Demo: Google Teachable Machine intro



SYLLABUS

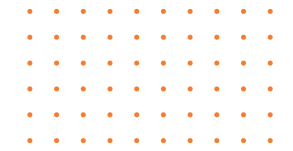
11. Hands-on: Train model (image recognition)
12. Hands-on: Train model (sounds/gestures)
13. Scratch Introduction – Block coding basics
14. Scratch Activity – AI-based storytelling
15. Scratch Mini Project – Guess the Animal game
16. Play AI Pictionary – Google QuickDraw
17. Fun Activity: AI riddles & puzzles
18. AI and Games – Pacman, Chess, Tic-Tac-Toe
19. Ethics in AI – Good vs bad AI
20. Case Studies – AI in real-world use
21. Activity: Role-play “AI Robot Teacher”
22. Mini Project Work (choose topic)
23. Project Presentations (Level 1)
24. Recap + Quiz + Certificates for Level 1





SYLLABUS

LEVEL 2: AI & CODING FOUNDATIONS (24 HOURS)



Goal: Learn Python basics + connect with AI applications.

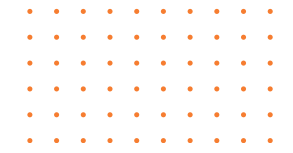
Students learn Python fundamentals, work with datasets, create simple Python games, and integrate Teachable Machine with Python.

DETAILED SYLLABUS (LEVEL 2: AI & CODING FOUNDATIONS – 24 HOURS)

1. What is Python? Why for AI?
2. Installing Python & IDEs (Colab/Thonny)
3. First Program – Print statements
4. Variables & Data Types
5. Input/Output in Python
6. Operators & Expressions
7. If-Else conditions
8. Loops (for, while)
9. Lists – Basics & practice
10. Strings – Basics & practice



SYLLABUS



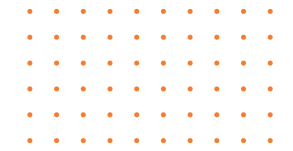
11. Functions – Simple examples
12. Activity: Simple Calculator program
13. Activity: Rock-Paper-Scissors (Python)
14. Activity: Number Guessing Game
15. Intro to AI datasets
16. Collecting and cleaning small datasets
17. Activity: Word Counter in Python
18. Activity: Chatbot (rule-based, if-else)
19. What is Machine Learning? (story-based)
20. Train a model in Teachable Machine (images)
21. Train a model in Teachable Machine (sounds)
22. Hands-on: Python + Teachable Machine integration
23. Mini Project Work
24. Project Presentations (Level 2)





SYLLABUS

LEVEL 3: APPLIED AI & MACHINE LEARNING (24 HOURS)



Goal: Move into ML applications and real-world mini projects.

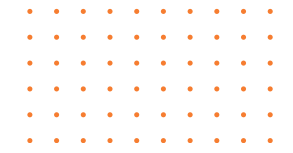
Students explore supervised, unsupervised, reinforcement learning, sentiment analysis, recommendations, and text classification.

DETAILED SYLLABUS (LEVEL 3: APPLIED AI & MACHINE LEARNING – 24 HOURS)

1. Recap of Python & ML
2. Machine Learning Overview – Applications
3. Supervised Learning explained
4. Hands-on: Classification (cats vs dogs)
5. Hands-on: Regression (predict marks)
6. Unsupervised Learning explained
7. Hands-on: Clustering activity
8. Reinforcement Learning explained (games)
9. Neural Networks – Visual explanation
10. Hands-on: Build simple NN with TensorFlow Playground



SYLLABUS



11. Activity: AI Quiz Bot (Python)
12. Sentiment Analysis intro
13. Hands-on: Sentiment analysis of sentences
14. Hands-on: Movie reviews dataset (positive/negative)
15. AI Bias – Why fairness matters
16. Case Studies – AI in health, education, transport
17. Hands-on: Text Classification (spam/ham)
18. Hands-on: Recommendation System (songs)
19. Mini Project Brainstorm
20. Project Work – Part 1
21. Project Work – Part 2
22. Project Testing
23. Project Presentation (Level 3)
24. Recap + Quiz





SYLLABUS

LEVEL 4: ADVANCED AI CONCEPTS (24 HOURS)

Goal: Explore NLP, Computer Vision, IoT, Cloud AI and Ethics.

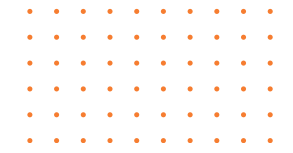
Students build applications with NLP, image/speech recognition, IoT and robotics use cases, and cloud-based AI tools.

DETAILED SYLLABUS (LEVEL 4: ADVANCED AI CONCEPTS – 24 HOURS)

1. Recap of ML basics
2. What is NLP? (Intro with examples)
3. Hands-on: Word Frequency Counter
4. Hands-on: Simple Sentiment Analysis
5. NLP in Chatbots
6. Computer Vision – How machines see
7. Hands-on: Image Classification (Python)
8. Hands-on: Face Detection (OpenCV basics)
9. AI in IoT – Smart homes, cars
10. AI in Robotics – Examples



SYLLABUS



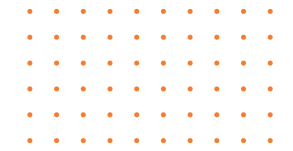
11. AI on Cloud – Google Colab basics
12. Cloud AI Tools (Google Vision, Azure AI)
13. Hands-on: Image recognition on cloud
14. Hands-on: Speech recognition API
15. AI for Social Good – Case Studies
16. Ethics & Privacy in AI
17. Hands-on: Smart Assistant (Python voice commands)
18. Hands-on: Image Drawing with AI tool
19. Mini Project Brainstorm
20. Project Work – Part 1
21. Project Work – Part 2
22. Project Testing
23. Project Presentations
24. Recap + Quiz





SYLLABUS

LEVEL 5: AI PROJECTS & FUTURE SKILLS (24 HOURS)



Goal: Work on capstone projects + learn about AI future.

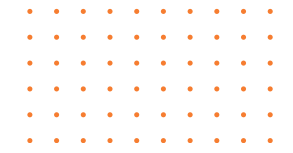
Students work on capstone projects end-to-end: brainstorming, dataset collection, model training, testing, integration, UI, debugging, and presentation. They also explore ChatGPT, DALL·E, responsible AI, and AI career opportunities.

DETAILED SYLLABUS (LEVEL 5: AI PROJECTS & FUTURE SKILLS – 24 HOURS)

1. Recap of Levels 1–4
2. What is Generative AI? (ChatGPT, DALL·E)
3. Hands-on: Fun with ChatGPT (text prompts)
4. Hands-on: Fun with DALL·E (image prompts)
5. Generative AI use cases
6. Responsible AI – Security, privacy
7. AI & Future Careers
8. Capstone Project Brainstorming
9. Project Work – Idea Finalization
10. Project Work – Dataset Collection



SYLLABUS



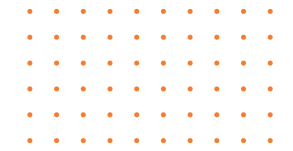
11. Project Work – Data Cleaning
12. Project Work – Model Selection
13. Project Work – Training the Model
14. Project Work – Testing the Model
15. Project Work – Integration (Python + AI model)
16. Project Work – Frontend (basic UI)
17. Project Work – Debugging
18. Project Work – Improvement
19. Capstone Report Writing
20. Project Work – Presentation Prep
21. Project Presentations – Group 1
22. Project Presentations – Group 2
23. Reflection & Feedback
24. Grand Showcase + Certification





SYLLABUS

FINAL OUTCOME



By the end of this 5-level, 120-hour program, students will:

- Progress from AI basics → coding → ML → NLP/CV → Capstone Project & Generative AI
- Gain hands-on skills in Scratch, Python, Teachable Machine, and cloud AI tools
- Create portfolio-worthy projects to showcase their learning
- Receive a Tech Learniversity Certificate of Completion at the end of each level + Capstone Showcase



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Company Description

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ABOUT US

Company Description

Tech Learniversity is a cutting-edge EdTech firm dedicated to revolutionizing global education through personalized learning experiences. We offer innovative training programs, including immersive bootcamps and next-generation AI courses, designed to equip learners with the skills needed to excel in today's competitive job market.

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