



WEBNEP
PRESENTS

AI IN Nutshell

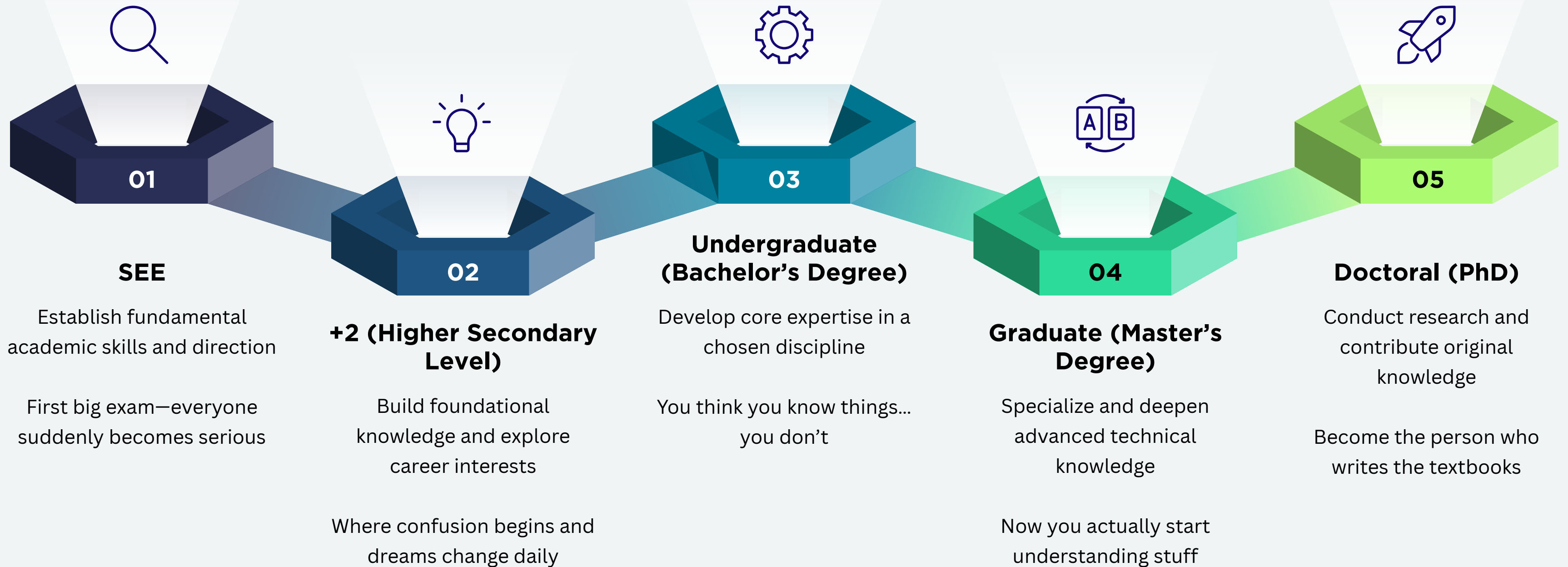
by Dipesh Bhandari
Gaurav Rizal



Day 01: AI and Future Pathways

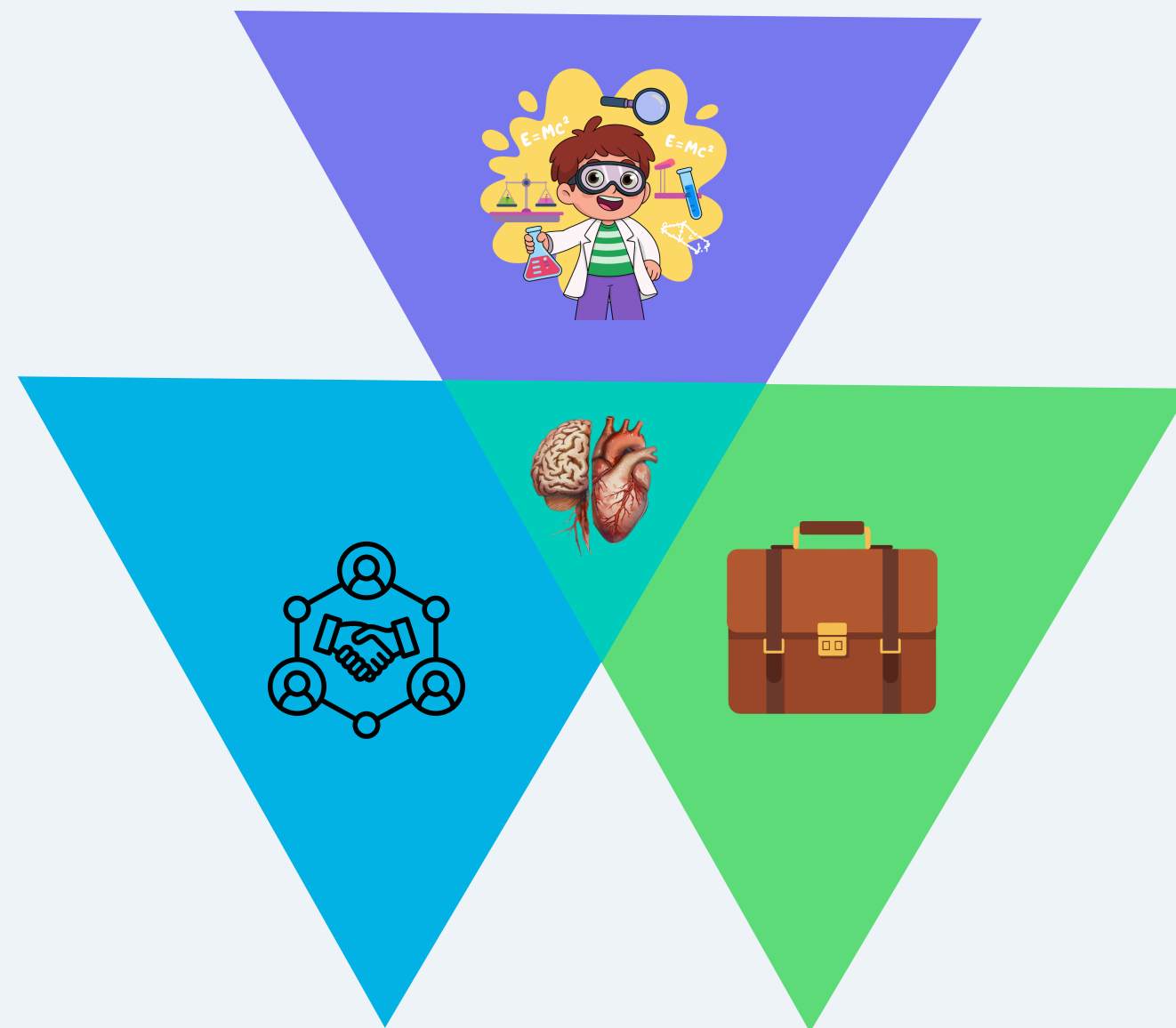
Pathways in Higher Education

Choose Your Difficulty Level



+2 Higher Secondary Level

Build foundational knowledge and explore career interests



01

Science (Medical and Engineering)

For problem-solvers and future engineers/doctors

Courses: Physics, Chemistry, Mathematics, Biology, Computer Science

02

Management

For business minds and future entrepreneurs

Courses: Accountancy, Economics, Business Studies, Marketing, Computer/Math

03

Diploma

For hands-on learners and early career starters

Courses (varies): Computer Engineering, Civil Engineering, Electrical, Hotel Management

Undergraduate (Bachelor's) – Science

Important factors to evaluate before choosing an exit plan



Undergraduate (Bachelor's) – Management

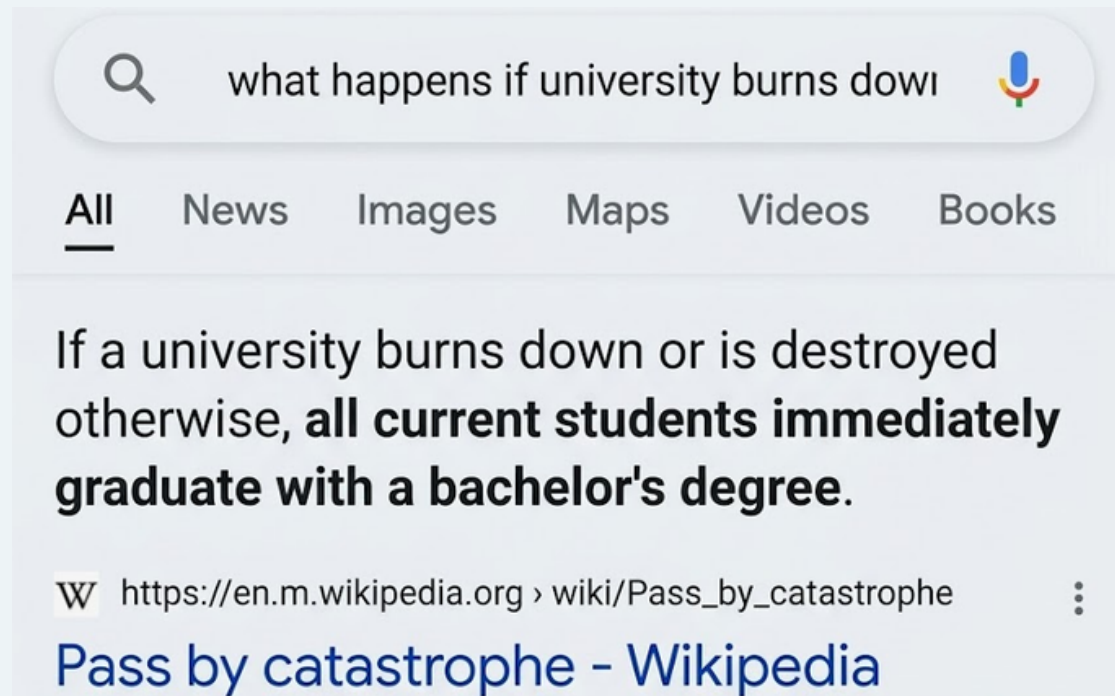
Important factors to evaluate before choosing an exit plan



Undergraduate (Bachelor's) – Law And Diploma

Important factors to evaluate before choosing an exit plan





Me going to my old class teacher who always said I was going to make it to nothing with my bachelor degree in my hand



The Digital Battlefield: Choose Your Role

The Ecosystem of Computer Science Careers

FrontEnd

Build interactive, user-friendly website interfaces

BackEnd

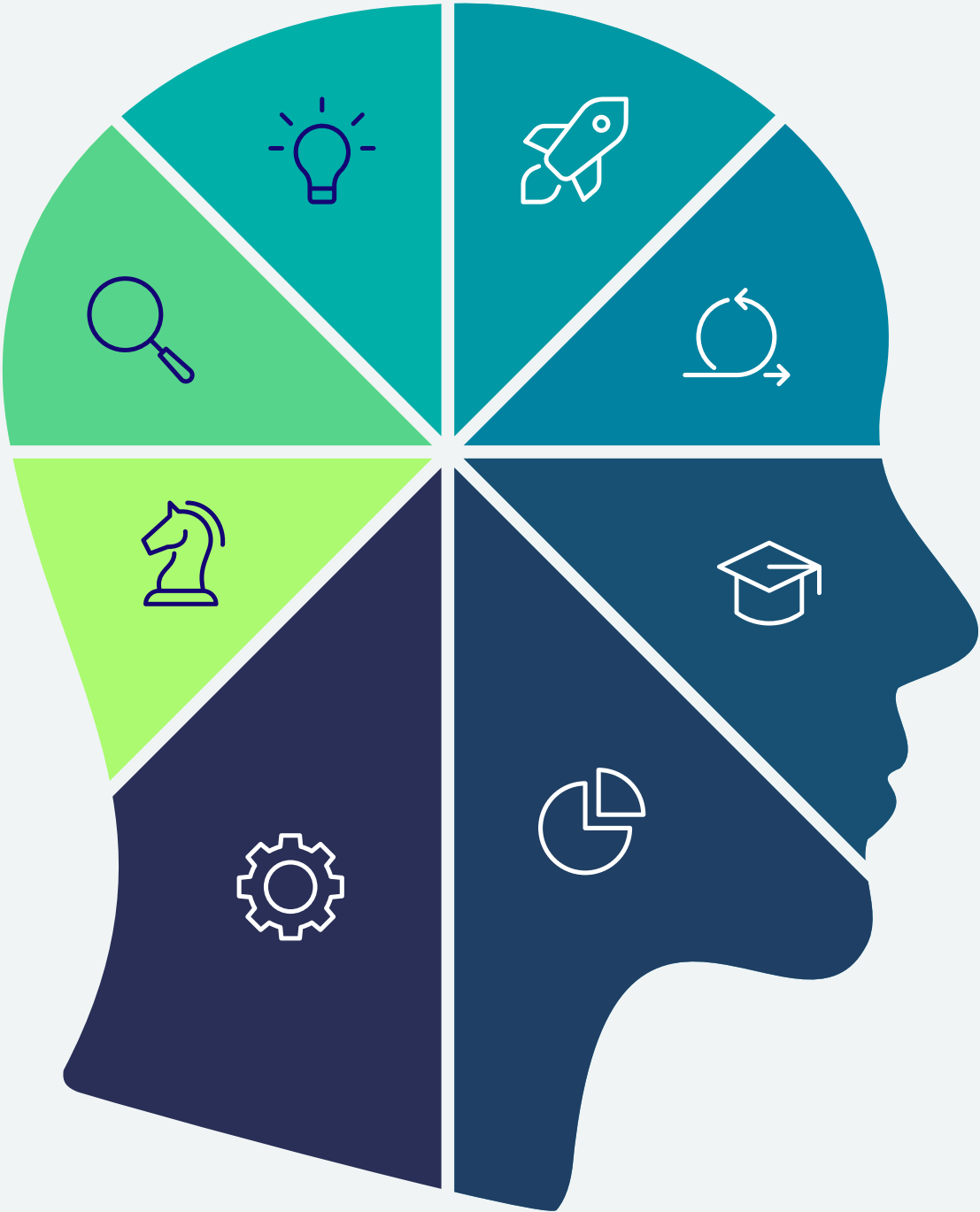
Manage servers, databases, and application logic

Quality Assurance (QA)

Ensure software reliability through testing processes

DevOps

Automate deployment, integration, and infrastructure management



Graphic Designer

Create visual content for digital experiences

AI/ML + Data Science

Build intelligent systems and predictive models;
Extract insights from complex data sets

Game Development

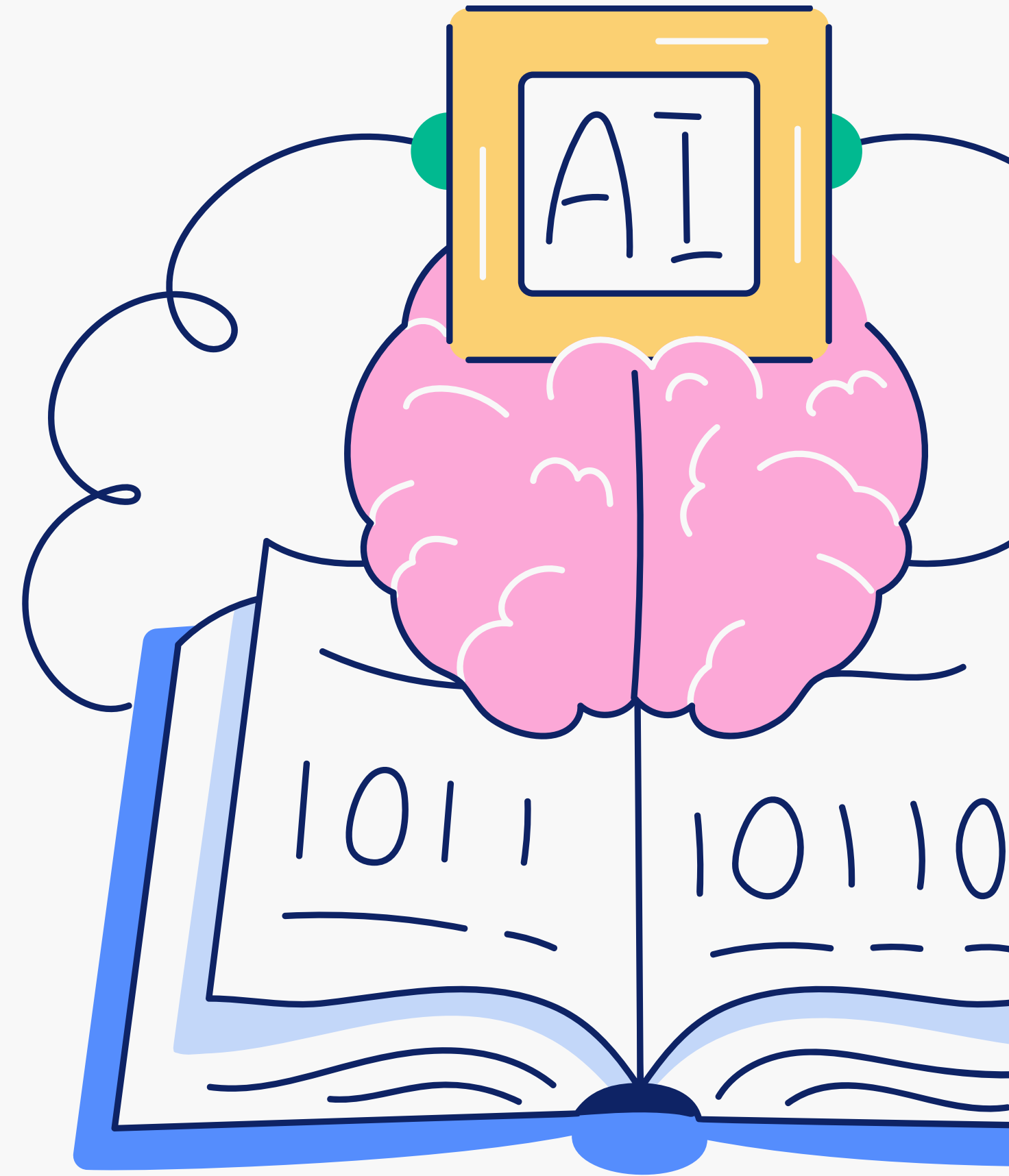
Design and build interactive gaming experiences

Mobile Applications

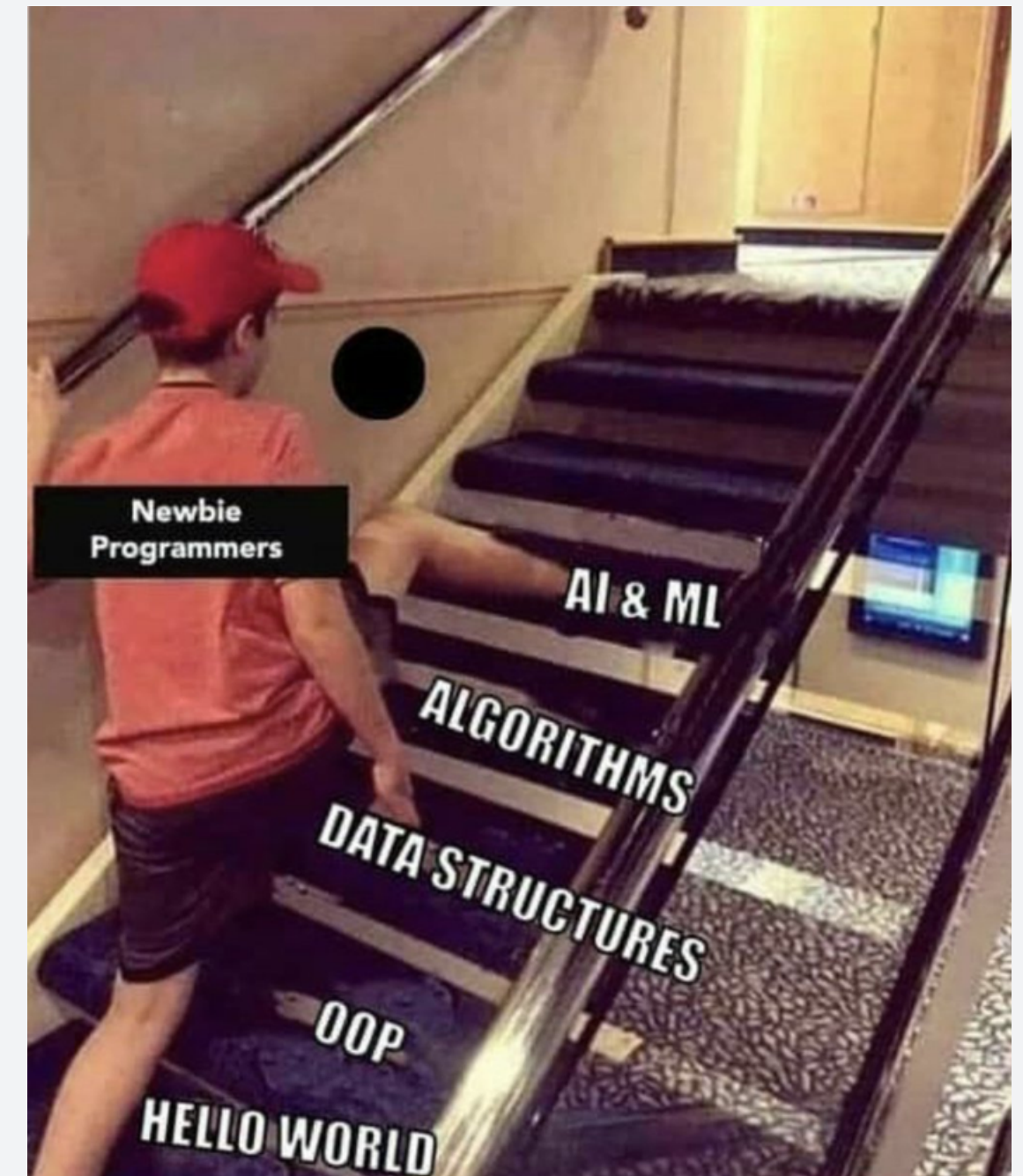
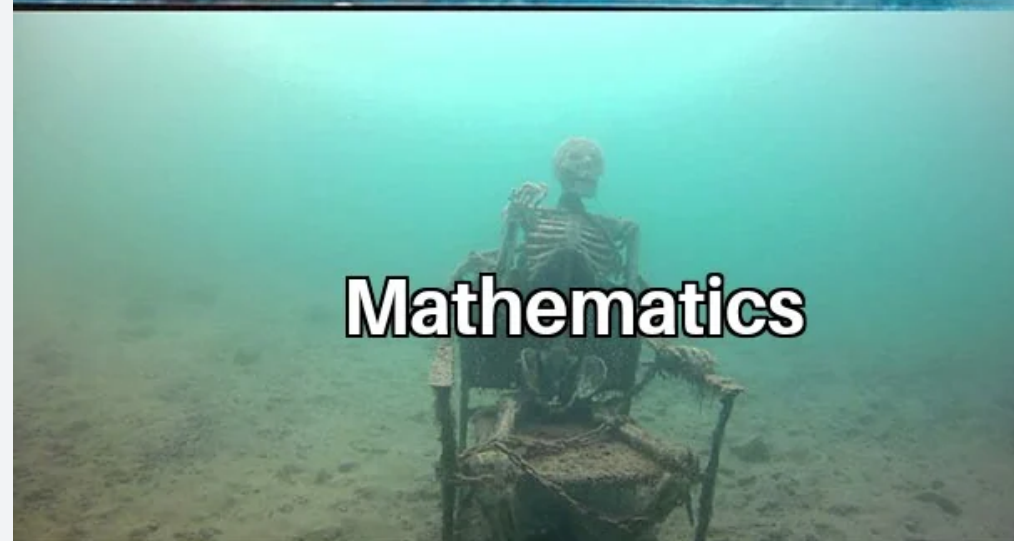
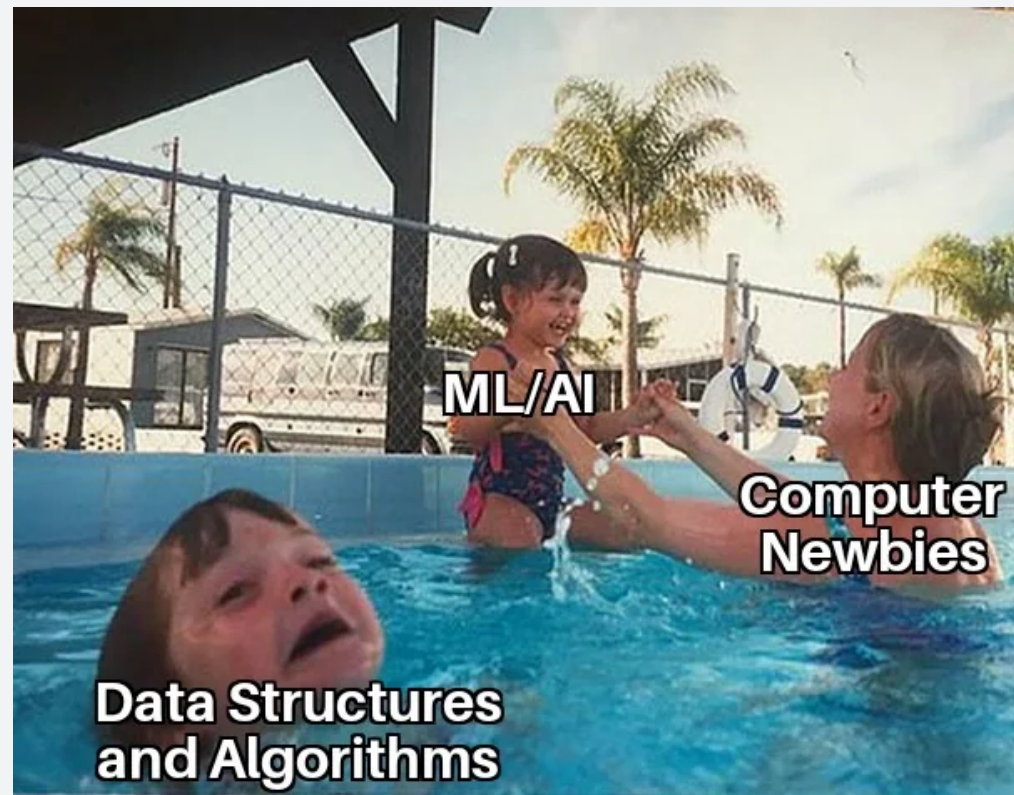
Develop apps for Android and iOS devices

WHAT IS AI?

- Artificial Intelligence (AI) refers to the ability of machines and software to perform tasks that typically require human thinking.
- This can include recognising patterns, generating text, making decisions, or predicting outcomes.
- AI works by using large amounts of data and algorithms to "learn" how to respond or generate output.
- It is not human, but it mimics certain types of human thinking.



AI in Nutshell



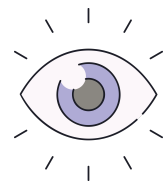
Artificial Intelligence & Machine Learning

Building smart systems that learn, think, and improve automatically

Computer Vision

Image/Video Processing

Teaching computers to understand and interpret images and videos



NLP

Natural Language Processing

Helping machines understand, process, and respond to human language



LLMs

Large Language Modelse

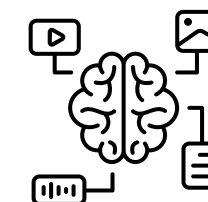
AI models that generate human-like text from huge data



Generative AI

GPT

Creating new content like text, images, music using AI



Robotics

Hardware driven

Building intelligent machines that can perform tasks in real world



Data Science & Analytics (DSAI)

Turning data into insights for smarter decisions

Time Series Analysis

Stock Trends

Analyzing data collected over time to identify trends



Data Mining

Big Data

Discovering hidden patterns and relationships in large datasets



Data Engineering

Data Pipelines

Building systems to collect, store, and process data efficiently



Big Data Analytics

Google Search

Handling and analyzing extremely large and complex datasets



Data Visualization

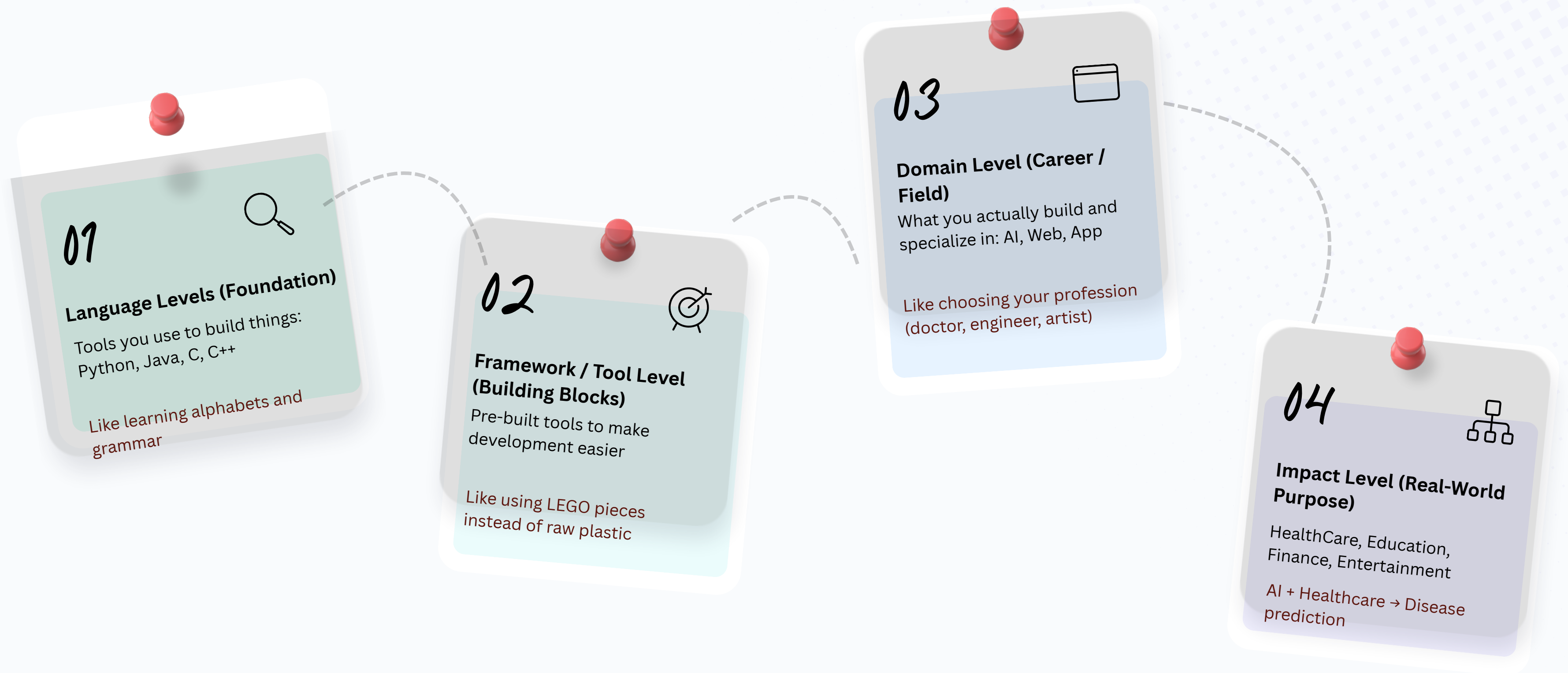
Collection, Cleaning

Building intelligent machines that can perform tasks in real world



3 Levels of Tech World

Build your social media presence with essential planning steps



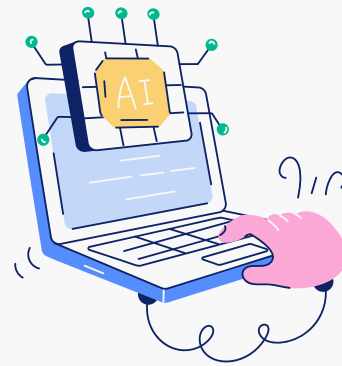
THINK, PAIR, SHARE

Discover how AI is already part of your daily student life



AI Around Me

list 5 places where
they already use AI
daily



Role Selection Activity

what interests you?



“Ask AI Better”

Prompt To Answer

Error 404: Easy life not found



**Saala Ye Dukh Kaahe Khatam Nahi
Hota Hai Be**