



EDUFYI TECH SOLUTIONS

# INTERNET OF THINGS

PROGRAM TYPE

**PROFESSIONAL**

Our Alumni work at



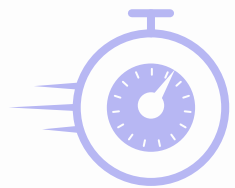
# WHO ARE WE?

At **Edufyi Tech Solutions**, we are dedicated to transforming the educational journey for college students by offering cutting-edge virtual internships and comprehensive training programs. Our approach combines industry mentorship with practical experience, providing each student with six real-time and capstone projects per course or domain. These projects are designed to equip students with the skills and experience needed to secure their dream jobs upon graduation



# WHY CHOOSE US?

Our unique features are:



Choose your Speed,  
Master the Skills



Industry Project  
Playground



Resume Building & Aptitude  
Grooming



Learn from Industry Mentors  
from MNCs & Startup Founders



100% Placement  
Assistance



Exclusive R&D  
learning content  
from leading MNCs



Unlimited  
Mocks  
& GDs



24\*7  
Dedicated  
Support



Wipro Dice ID  
Accredited  
Globally Recognized  
Certifications



Get your  
Internship with  
150+ Companies



1:1 Counselling  
Sessions



Additional  
Certifications from  
Microsoft, Cisco, IBM,  
Adobe, etc



Certified  
Bootcamps  
& Webinars



Lifetime  
Personalized Learning  
Management System  
(LMS)



Access recorded  
lectures Anytime,  
Anywhere!!



Skill Up & Cash In  
with Performance  
Based Stipend



Mentorship by  
industry experts  
via live sessions



Access  
to our  
Hiring Partners



# WHAT IS INTERNET OF THINGS?

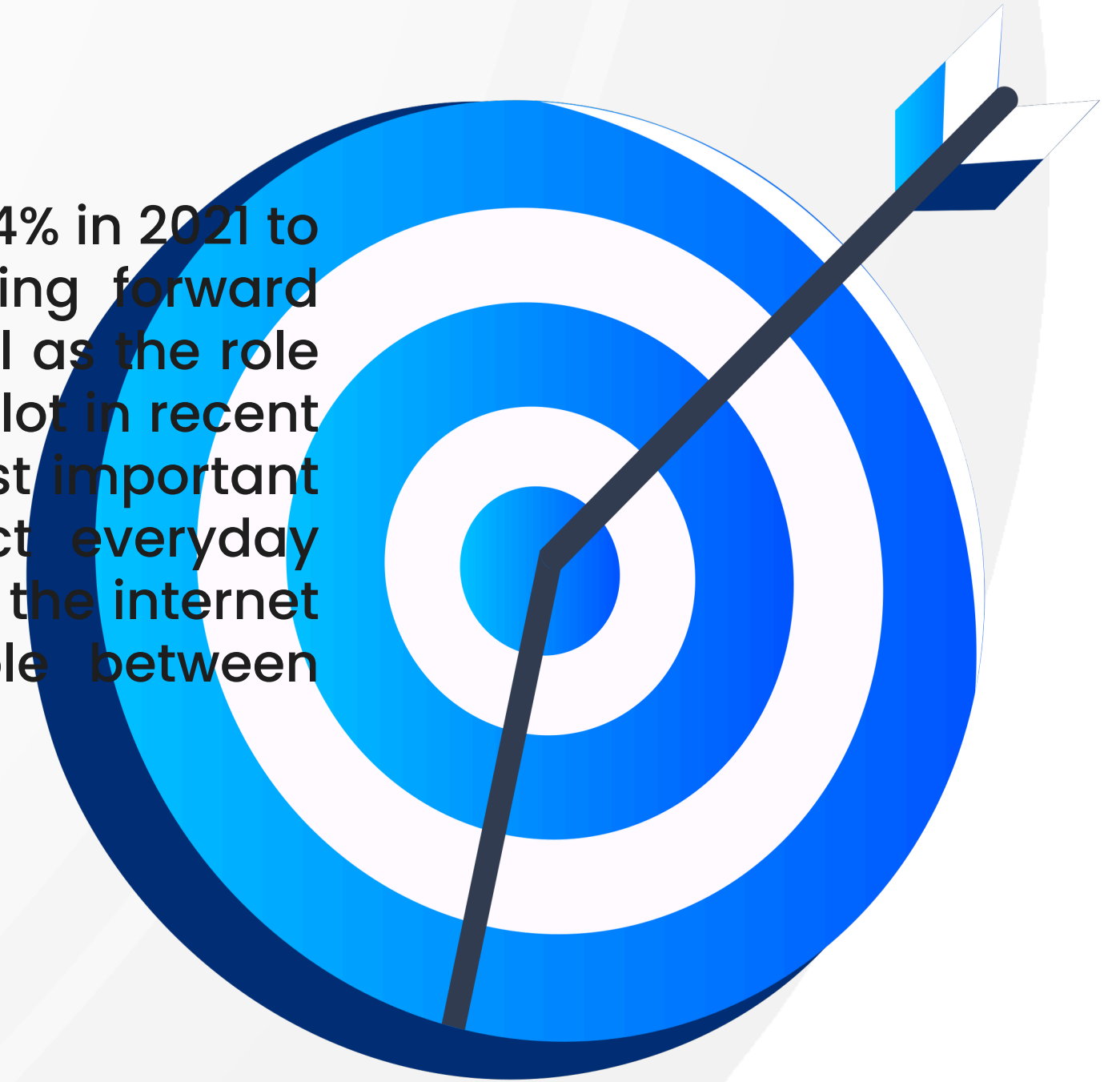
**The Internet of Things** (IoT) describes the network of physical objects things that are embedded with sensors, software, and other technologies for the purpose of connecting and exchanging data with other devices and systems over the internet. These devices range from ordinary household objects to sophisticated industrial tools. IoT enables these smart devices to communicate with each other and with other internet-enabled devices, like smartphones and gateways, creating a vast network of interconnected devices that can exchange data and perform a variety of tasks autonomously.





# SCOPE OF INTERNET OF THINGS.

Overall Internet of Things (IoT) enterprises spending grew by 22.4% in 2021 to **\$158 billion**. Key macro tailwinds for the IoT market size going forward include maturing technologies such as AI, 5G, and cloud as well as the role that IoT plays in reaching sustainability goals IoT has evolved a lot in recent years. Over the past few years, IoT has become one of the most important technologies of the 21st century. Now that we can connect everyday objects kitchen appliances, cars, thermostats, baby monitors to the internet via embedded devices, seamless communication is possible between people, processes, and things.



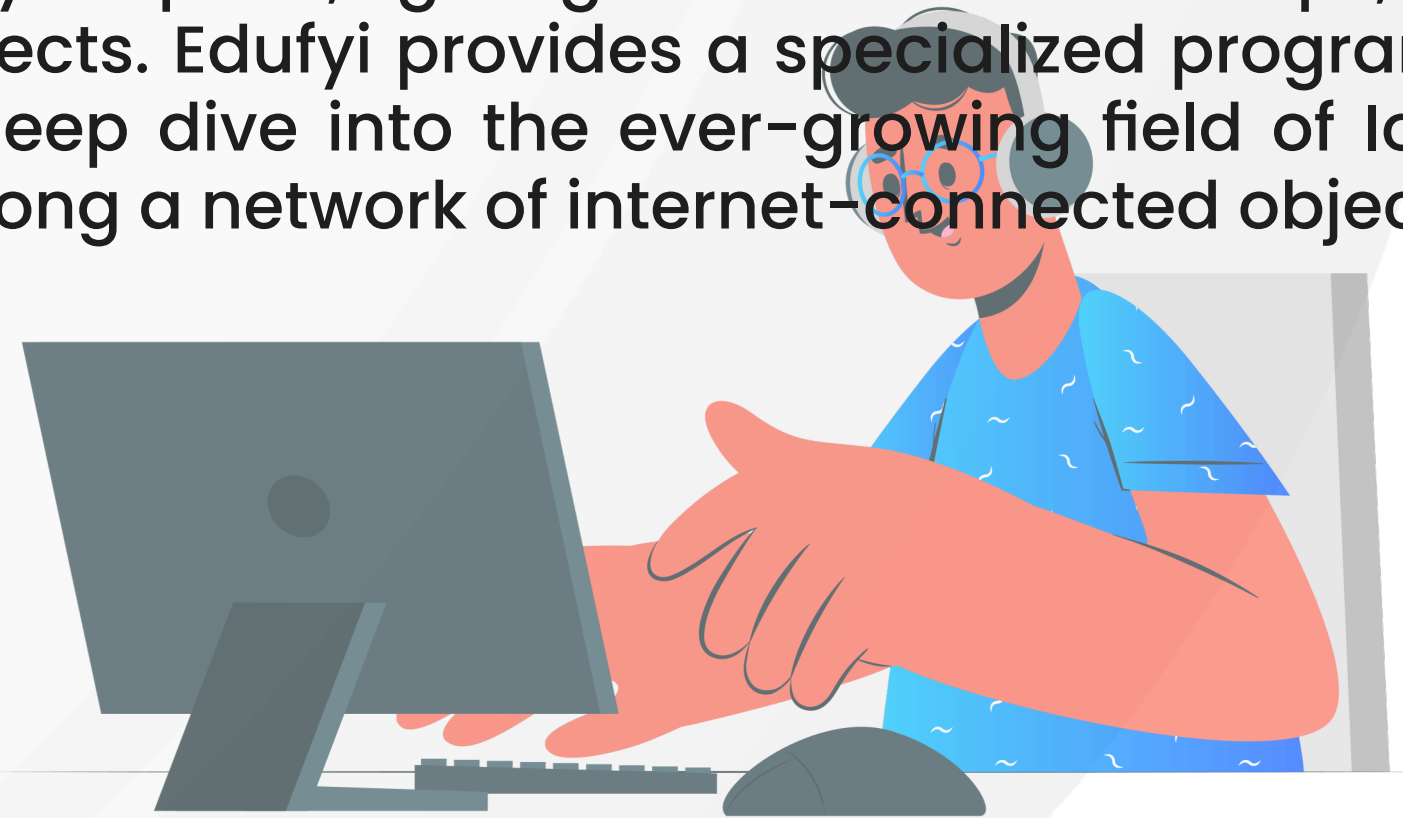
# CAREER OPPORTUNITIES

- Data Analytics
- IoT Developer
- IoT Architect
- IoT Embedded program
- Engineer
- IoT Safety Engineer



# HOW CAN YOU START YOUR JOURNEY IN INTERNET OF THINGS?

Enroll in our specialized program, learn from industry experts, get guaranteed internships, job opportunities and work on [6 Advance Industry](#)-based projects. Edufyi provides a specialized program in IoT in association with our partnered companies. You'll deep dive into the ever-growing field of IoT, a technology that allows the intelligent exchange of data among a network of internet-connected objects.



# SPECIALISED PROGRAM CURRICULUM

## INDUSTRIAL TRAINING

### ● Session 1

- Introduction to Basic electronics
- What is a circuit
- What is a Breadboard
- Resistor
- Types of Resistors
- Symbol of Resistor in Circuit Diagram
- Ohm's Law
- Principle of Resistor
- Resistor Color Code
- Resistor Color Code wheel calculator



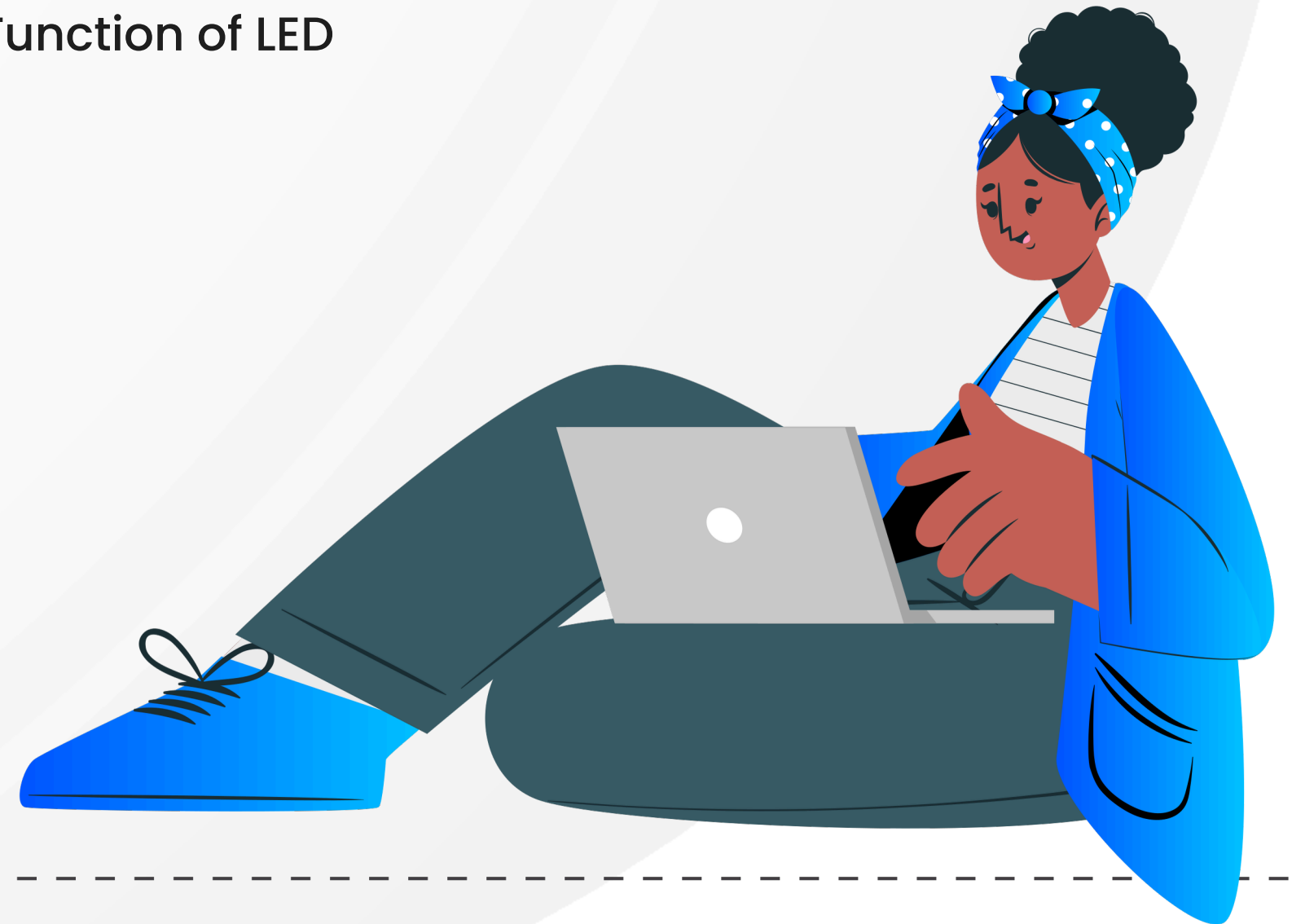


## ● Session 2

- Capacitor
- Symbol of Capacitor in Circuit Diagram
- Capacitance Calculation
- SI unit of Capacitor
- Diode
- Symbol of Diode in Circuit Diagram
- Function of a Diode
- Triode
- Symbol of Triode in Circuit Diagram
- History of Triode
- Audion Tube
- 3XC1500A7 Triode

## ● Session 3

- Transistor
- Symbol of Transistor in Circuit Diagram
- Working of a Transistor
- LED (Light Emitting Diodes)
- Symbol of LED in Circuit Diagram
- LED Diagram
- Components of LED
- History of LED
- Function of LED



## ● Session 4

- Coil
- Symbol of Coil in Circuit Diagram
- Introduction to Coil
- Introduction to Solenoid
- Importance of Solenoid
- Switches
- Symbol of Switch in Circuit Diagram
- Working of a Switch
- Uses of a Switch
- Introduction to Relay
- Symbol of Relay in Circuit Diagram
- Integrated Circuit (IC)
- Uses of a IC

## ● Session 5

- What is a Microcontroller
- Microcontroller Packaging
- Types of Microcontrollers

## ● Session 6

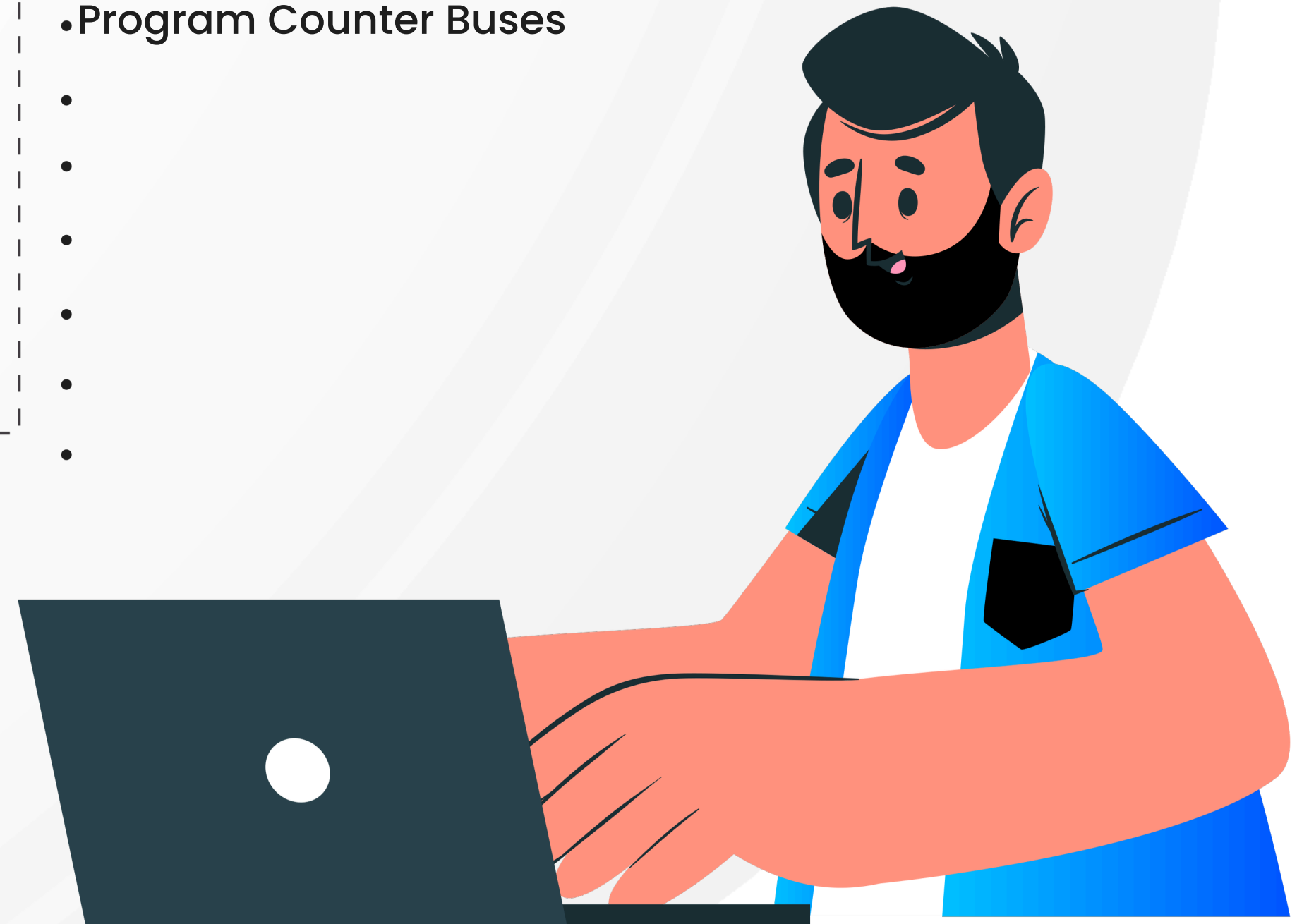
- Classification based on bits 4 bit
- Microcontroller 8 bit Microcontroller 16 bit
- Microcontroller 32 bit Microcontroller
- Classification based on Memory/Devices
- Embedded Microcontroller External
- Memory Microcontroller
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## ● Session 7

- Classification based on Instruction Set
- CISC Architecture Microcontrollers
- RISC Architecture Microcontrollers
- Classification based on Memory Architecture
- Von-Neuman/Princeton Architecture
- Architecture Diagram
- Harvard Architecture
- Architecture Diagram

## ● Session 8

- General Microcontroller Architecture
- CPU (Central Processing Unit) ALU
- Oscillator ROM RAM Special Function
- Registers Peripheral Components
- Watchdog timer Stack Pointer
- Program Counter Buses
- 
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## ● Session 9

- Microcontroller Operation
- Module
- Circuit Architecture
- Internal Operation
- Advantageous Features
- Applications of Microcontroller
- Typical Microcontroller Application
- Case- Car Cruise Control System
- Criteria of choosing a Microcontroller
- Aurdino Microcontroller

## ● Session 10

- IOT (Internet of Things)
- Introduction to IOT
- Applications of IOT in daily life
- Why IOT
- IOT Ecosystem
- Top 10 Strategic IOT Technologies and Trends – Gartner





## ● Session 11

- Benefits of IOT
- Consumer and Enterprise IOT Applications
- The Smart World of the future using IOT
- Consumer IOT Products & Services
- Amazon Dash
- Kinsa Thermometer
- Connected Car Story
- Smart Farming using IOT
- Industrial IOT (IIOT)
- IIOT in Manufacturing
- IOT Challenges
- The Future of IOT

## ● Session 12

- Industry required concepts – IOT
- Advanced Introduction to IOT
- Business Impact and Architecture of IOT



**QUIZ**

## **ADVANCE INTERNSHIP PROJECTS**

**Project 1**

**Project 2**

**Project 3**

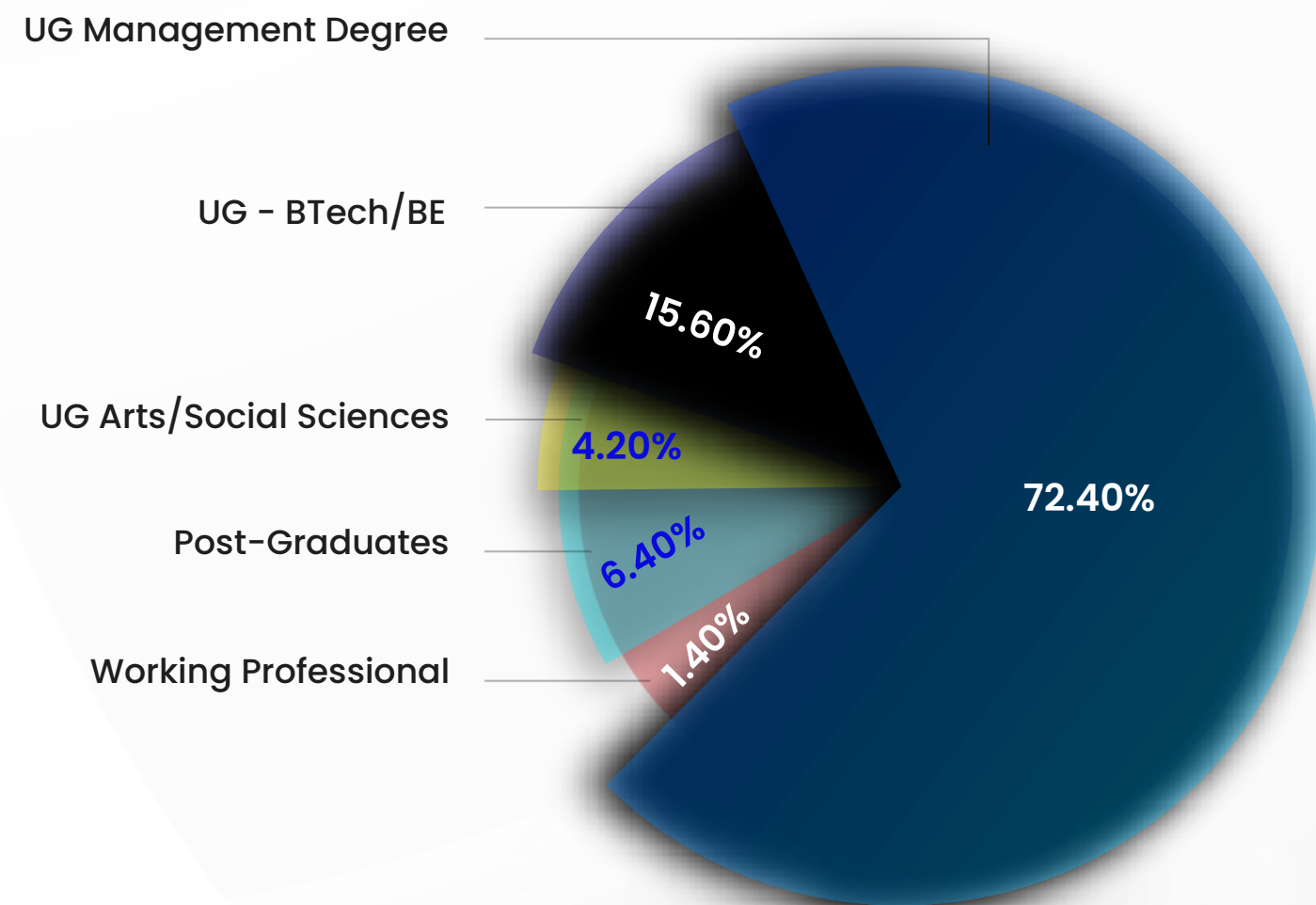
**Project 4**

**Projects 5**

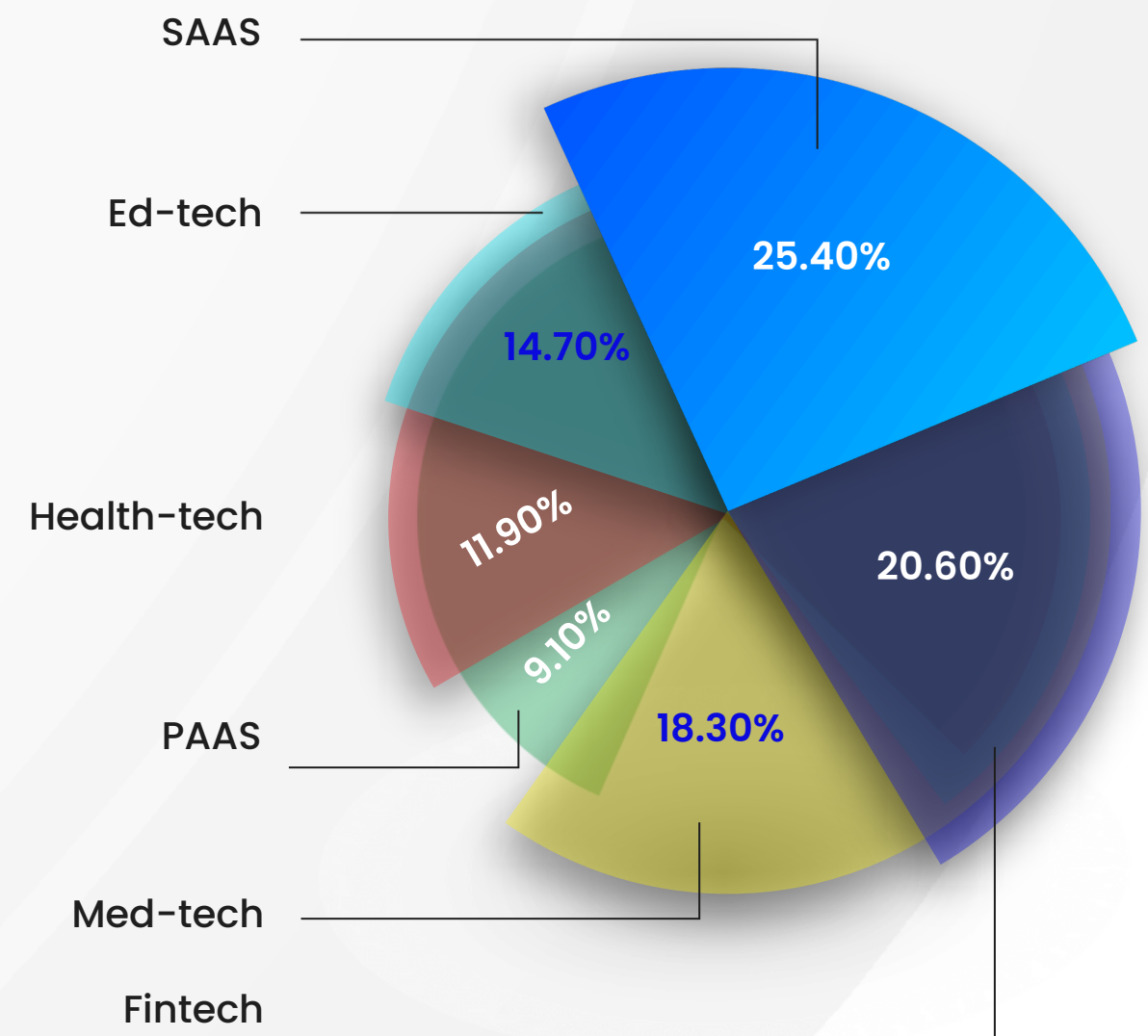
**Projects 6**



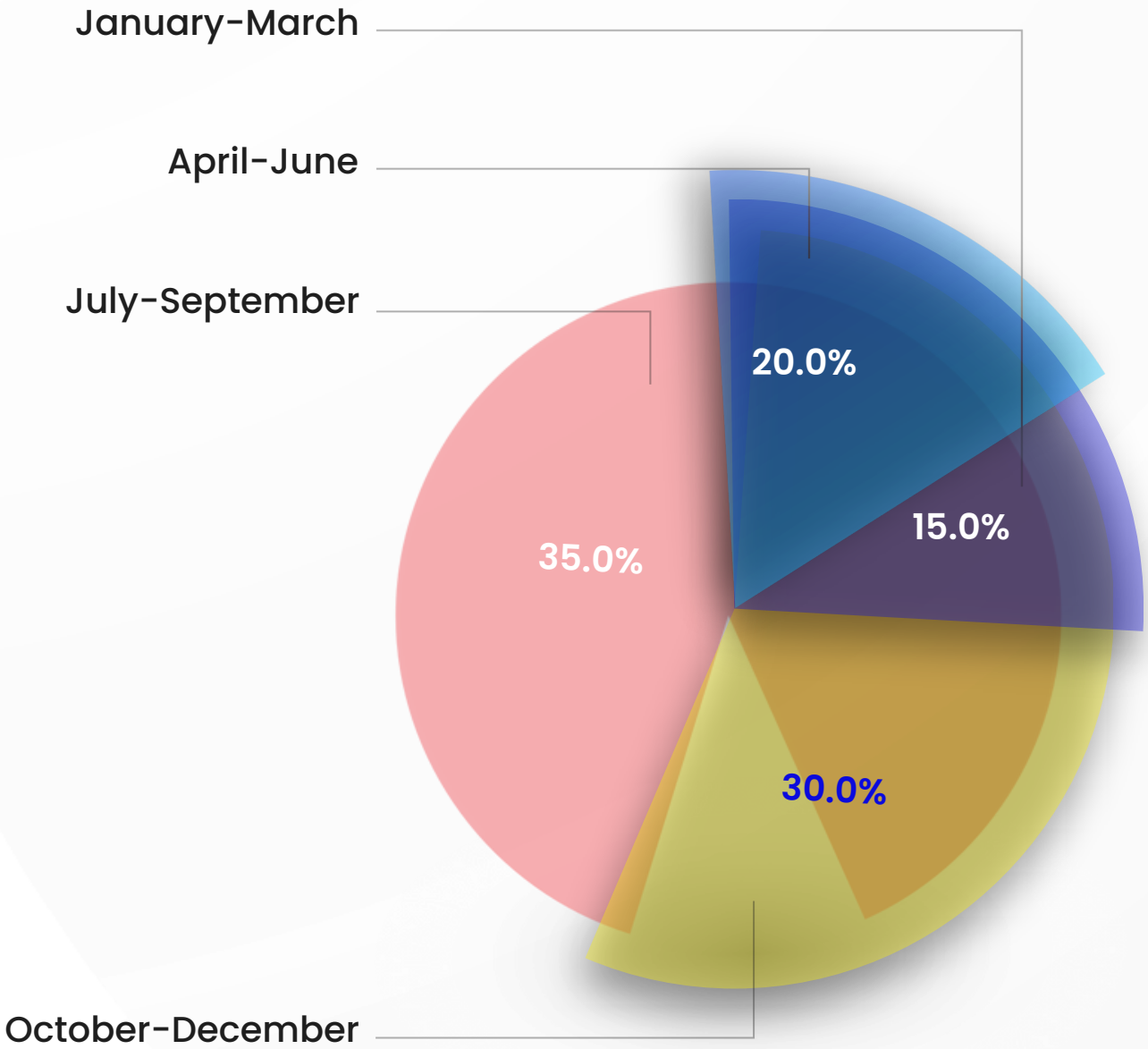
## LEARNER'S BACKGROUND



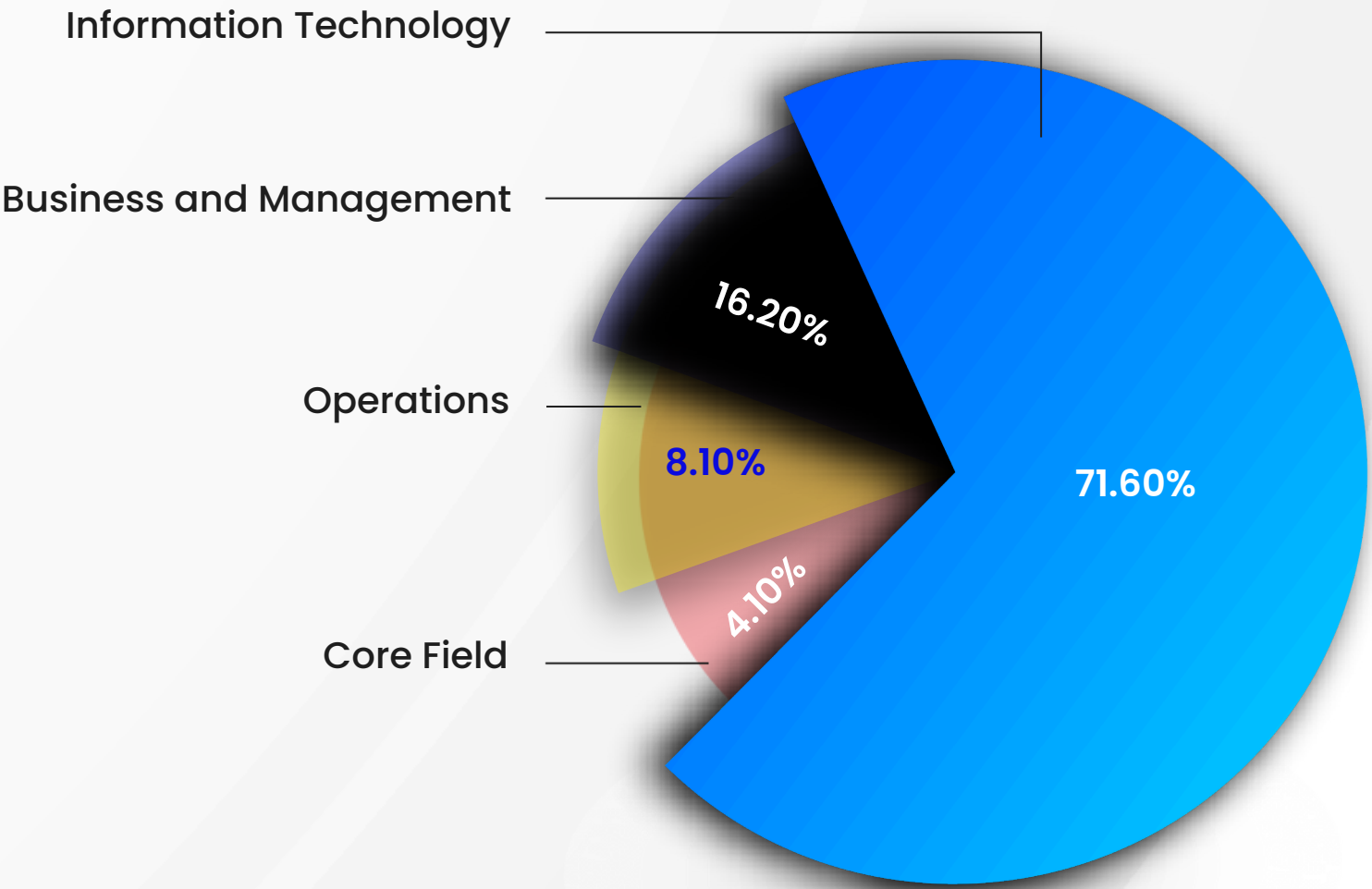
## PLACEMENTS RATIO OFFERED AS PER INDUSTRY



# QUATERLY PLACEMENT ANALYSIS REPORT



# OFFERED PROFILES & FIELDS VIA EDUFYI





# WIPRO DICE ID ACCREDITED CERTIFICATIONS



# PROFESSIONAL MNC CERTIFICATIONS



# OUR AUTHORISED CERTIFICATION PARTNERS



ADOBE



MICROSOFT



QUICKBOOKS



AUTODESK



CISCO



ESB





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