edureka!
a Veranda Enterprise

ADVANCED CERTIFICATE PROGRAM IN

CYBER SECURITY

IN COLLABORATION WITH

**E&ICT Academy
IIT Guwahati**

E&ICT Academy
IIT Guwahati

As an initiative of the Ministry of Electronics & Information Technology (MeitY), the Academy was set up at IIT Guwahati under the scheme of "Financial Assistance for setting up Electronics and ICT Academies". On 26 March, 2015 the project started at IIT Guwahati and the Academy was inaugurated by Prime Minister Shri. Narendra Modi on 19 January, 2016.The objective of the Academy is to provide skill training to the Faculty Members (Engineering & Non-engineering) in the area of recent trends in engineering & ICT application. The Academy is designing specialized modules for imparting quality training for enhancing employability and capacity building in the area of Electronics & ICT. In the past 7 years, the Academy has successfully conducted 300+ Faculty Development Programme through conventional classroom teaching and NKN virtual classroom mode in different institutes/Universities of North Eastern States in particular and a few in other states of India. Till date, the Academy has successfully trained 18000+ participants. The Academy has also signed MoU with Institutes/Universities for hosting the programmes and for conducting hands-on sessions the Academy collaborated with Industries as Training/Industry Partners. The Academy is also offering online Advance Certification Courses in the area of Data Science, Artificial Intelligence & Machine Learning, Big Data, Cloud Computing, Full Stack and VLSI Design and trained **1000+** graduates and working professionals. The Academy has also delivered training to Assam Police officials on cybercrime concepts and trained 90+ officials. The project has been extended to 30 September, 2022. The academy has been given a target to train 13019+ faculties till **30 September 2022**, the Academy has achieved the same by **31 March 2022.**

edureka!
a Veranda Enterprise

Edureka is an online education platform focused on delivering high-quality learning to working professionals. We have the highest course completion rate in the industry and we strive to create an online ecosystem for our global learners to equip themselves with industry-relevant skills in today's cutting edge technologies.

Why is Cyber Security Important?

Cybersecurity plays a critical role in safeguarding individuals, organizations, and governments from an ever-evolving range of cyber threats. It helps prevent unauthorized access to sensitive data, maintains the privacy of personal information, defends against financial fraud and theft, ensures the stability of critical infrastructure, and preserves the trust and confidence of customers and stakeholders. By implementing robust cybersecurity measures, we can mitigate risks, minimize potential damages, and create a more secure digital environment for everyone.

Cyber Security can empower organizations in the digital landscape through:

Protecting sensitive info and ensuring confidentiality

Building trust and preserving brand image

Minimizing losses and preventing harm

Safeguarding valuable IP assets

Meeting obligations and ensuring legality

Minimizing disruptions and ensuring resilience

In the Indian cybersecurity industry, the services sector emerged as the primary revenue generator, reaching a value of approximately $8.5 billion in 2021. With a compound annual growth rate (CAGR) of over 30% in the past two years, this segment is projected to expand further to $13 billion by 2023. The demand for cybersecurity professionals in India is increasing due to factors like the country's digitalization, escalating cyber threats, regulatory compliance obligations, existing skill gaps, and growing awareness. Skilled individuals in this field can expect higher salaries and abundant job opportunities. Here are some prevailing trends in the cybersecurity job market.

Current Trends in the Cyber Security Job Market:

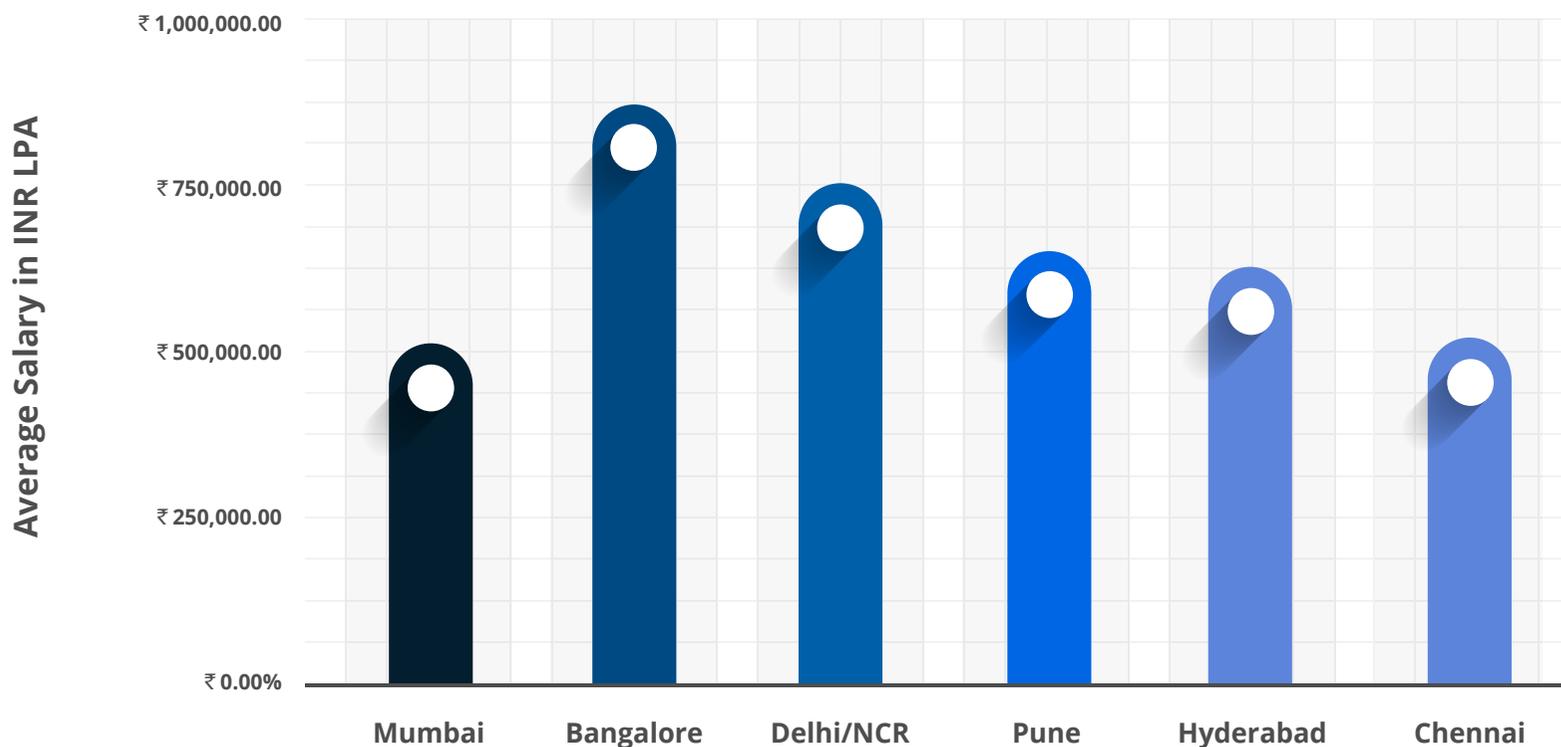The number of unfilled cyber security jobs is expected to reach **3.5 million in 2025**

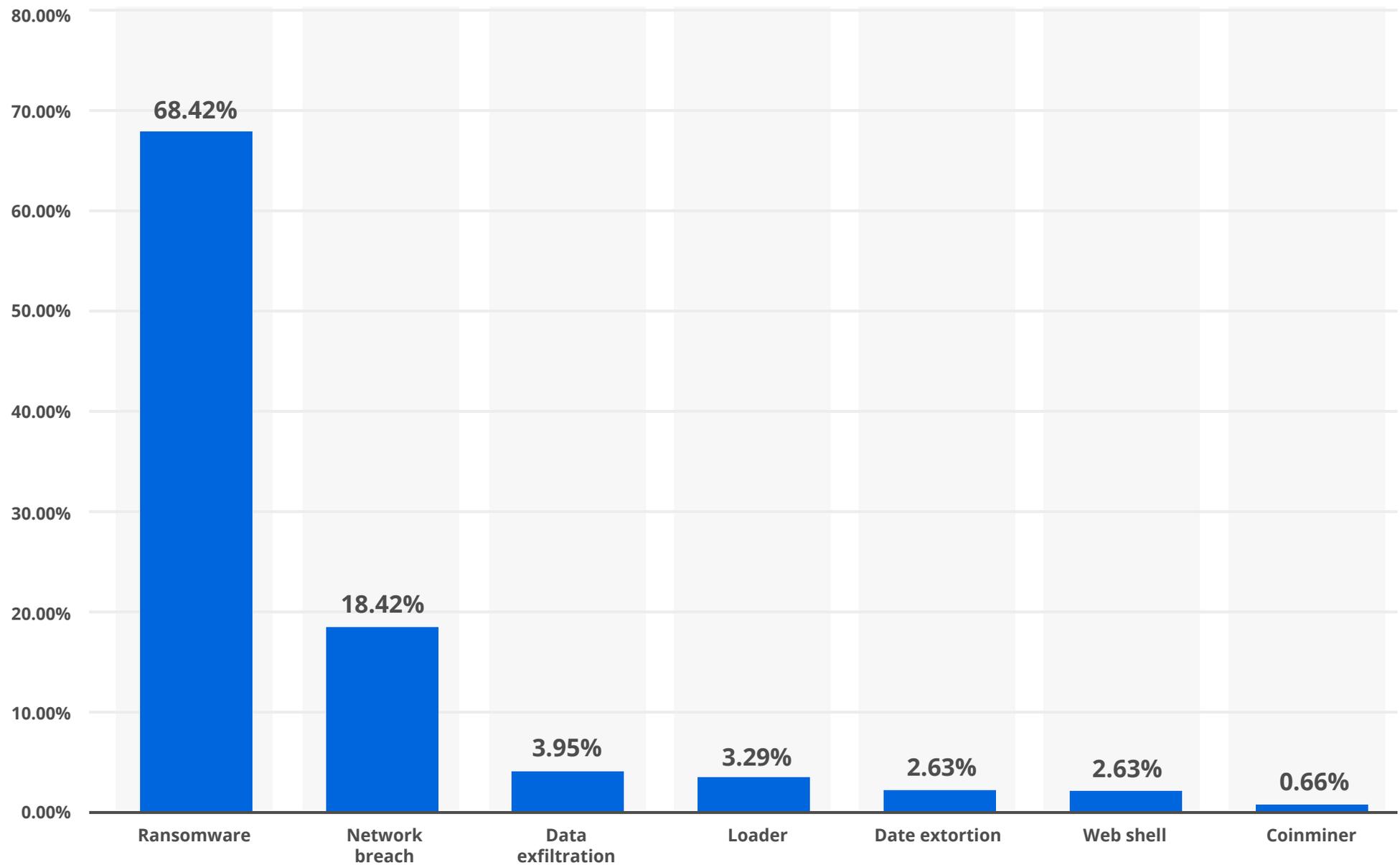Global cyber security industry is estimated to cross **$248.26 billion by 2023** – forbes.com

Average salary of cyber security Professional varies from **$84,000 – $110,000** - Indeed.com

Salary Trend Across Cities

Source - Glassdoor

Distribution of detected cyber attacks worldwide in 2022, by type

Ransomware	68.42%
Network breach	18.42%
Data exfiltration	3.95%
Loader	3.29%
Date extortion	2.63%
Web shell	2.63%
Coinminer	0.66%

About the Partnership

Edureka, E&ICT Academy IIT Guwahati and industry veterans have jointly collaborated to create the Advance Certification in Cyber Security to prepare the future workforce in Cyber Security.

Dr. Gaurav Trivedi
Principal Investigator, E&ICT Academy, IITG
(https://iitg.irins.org/profile/128317)

"

Cybersecurity is essential to protect sensitive data, defend against evolving cyber threats, and maintain the trust of customers and stakeholders. It ensures the resilience and continuity of organizations, mitigates financial risks, and safeguards valuable assets, enabling them to thrive in a digital landscape while maintaining confidentiality, integrity, and availability of information. we at E&ICT Academy, IITG in collaboration with Edureka have launched our Advance certification Program in Cyber Security.

Vineet Chaturvedi
Co-Founder & CEO, Edureka

"

The partnership between Edureka and E&ICT Academy, IIT Guwahati, is built on the foundation of sparking a revolution in the Cyber Security domain. To achieve that, we have created a world-class curriculum (including industry-grade capstone projects) for our learners. We are more than happy to collaborate with IIT Guwahati, which will benefit learners who wish to skill themselves in the Cyber Security domain.

Key Highlights

6-Month Online Advanced Certification

E & ICT Academy, IITG certificate on completion

Curriculum designed by Edureka and approved by E&ICT Academy, IIT Guwahati

450+ Hours of Learning

9+ Projects, 20+ Case Studies, 100+ Demos

High-Quality Lab Environment

Instructor-Led Live Online Sessions

Industry-Grade Capstone Project

The Edureka Advantage

WHAT I NEED	WHAT EDUREKA OFFERS	WHAT OTHERS OFFER
Practical Knowledge and exposure relevant to the current industry/job needs	✅ Live instructor-led online classes by industry experts	❌ Recorded videos without any interaction with the instructor
Personalised Attention and help to make progress in my learning	✅ A Personal Learning Manager to guide you all through the course	❌ No personal attention. Online recordings common for everyone
Curriculum designed by Top 10 Institutes in India, relevant to the current industry/job needs	✅ Curriculum designed by Edureka and approved by E&ICT Academy, IIT Guwahati	❌ Curriculum by unknown foreign or local colleges
Doubt Clearing Sessions, regular and one-on-one	✅ 24x7 subject matter expert support for your technical/non-technical doubts	❌ Unsatisfactory support and zero doubt clearing sessions
Support and Guidance even after the course completion	✅ Lifetime access to our Learning Management System and Edureka Support	❌ No support after the completion of the course
Certificate/Credentials which are highly recognized in the industry/market	✅ Certificate from E&ICT Academy, IIT Guwahati, recognised globally	❌ Certificate from unknown foreign or local colleges
Career Guidance and Placement Support to get a relevant job in a top company	✅ Complete access to a plethora of our Career Assistance Services	❌ Minimal or no career/placement services
Immersive Learning Experience	✅ A unique learning ecosystem to give you an offline-like immersive experience	❌ Recorded videos without any live experience

Career Assistance Services

Cyber Security Career-Oriented Webinars

In this Cyber Security webinar, you will have a live and interactive webinar session with an industry expert to gain knowledge from a seasoned career mentor

Profile Building Assistance

In this Cyber Security Program, you will get expert tips and advice on how to create an attractive and relevant resume and LinkedIn profile that guarantees effectiveness.

Mock Interview Sessions

In this Cyber Security training session, the learners can take part in mock interview sessions with industry experts to gain hands-on experience in real-life

Career Mentoring Sessions

Career Mentoring sessions on how to develop the right skills and the right attitude to secure a dream job.

Job Search Assistance

Access to recruiters through Elevayt platform to help learners navigate through thousands of jobs, create their resumes along with skill verification, and track their job application status.

Note: Placement Assistance will be provided to students applying only in India

Learn more about Edureka's hiring partners in the next section.

Edureka has placed thousands of students in various top tech companies like:

Microsoft

SAMSUNG

PayPal

DUNZO

What's in it for You?

After completing the program, you will receive an industry-recognized certification from the E&ICT Academy, Indian Institute of Technology, Guwahati (IITG), in Cyber Security.

After getting your certification in Cyber Security, you will be able to explore a wide range of Cyber Security jobs available globally, like

Entry-Level:
- Cyber Security Analyst
- Incident Response Analyst
- Security Consultant
- SOC Analyst

Mid Level:
- Security Engineer
- Information Security Auditor
- Vulnerability Assessment Analys
- Network Engineer

Senior Level:
- Chief Information Security Officer
- Security Administrator
- Penetration Tester
- Security Architect

Customer Success Stories

V

Vickramsing Muttarooa
Digital Forensic Investigator

"Edureka helped me to gain cyber security skills. I passed the Edureka Cyber Security Professional Online Exam after the instructor explained Network Security, Application & Web Security, System Hacking, and Session Hijacking."

Himanshu Joshi
Manager- Networks And Implementations

"My overall experience is very good. The knowledge given by the faculty is very helpful to me & during training they solve all the problems related to the topic.Overall it was very informative training session regarding Cyber Security."

Sakthipriya M
Assistant Project Coordinator

"The instructor Khaja gave us the brand new learning experience explaining nook and corner of the course content with the powerful way of teaching methods. This course offered theoretical concepts as well as consists of many laboratory works. "

Gaurav Solanki
Lead Associate-Quality

"The labs were very interesting and that sort of helped me to relate to real world scenarios. The Instructor was technically sound who kind of involved everyone to ask as many questions as possibly. I highly recommend CyberSecurity Course by Edureka."

Sahil Shah
Cyber Security Intern

"I'm very much happy to be part of Edureka! enrolled for CEH-V11 and talking about my experience, it's very good enough for New learners. The class instructor was very good at explaining topics and practical demonstrations"

Learning Path

Week 01-03
Course 1 - Operating System and Networking Fundamentals:
Linux Fundamentals, Cybersecurity Tools in Kali Linux, System Security, Basics of Networking, and Network Security.

Week 04-06
Course 2 - Cryptography and Information Security:
Introduction to Cryptography, Symmetric Ciphers, Asymmetric Ciphers, Pseudo-Random Number Generation, and Steganography and Data Integrity Algorithms

Week 07-08
Course 3 - Infrastructure Security:
Security Fundamentals, Device Security, Topologies and IDS,and System Hardening

Week 09-12
Course 4 - Application Security:
Authentication and Authorization, Session Management, Web Security, File Security, Mobile Security, Database Security, and Secure Development Methodologies

Week 13-15

Course 5 - Ethical Hacking:
 Introduction to Ethical Hacking, Anonymity, Scanning Network, Enumeration, Vulnerability Analysis, and Information Gathering

Week 16-18

Course 6 - Device Hacking:
Operating System Hacking, Hacking Wireless Networks, Malware Threats, Sniffing, IoT Hacking and Cloud Hacking

Week 19-22

Course 7 - Web Application Hacking:
Introduction to Web Application Hacking, OWASP Top Ten – Part 1, SQL Injection, Session Hijacking, OWASP Top Ten – Part 2, OWASP Top Ten – Part 3, and Social Engineering

Week 23-24

Capstone Project

Enterprise Security (Self-Paced)

Digital Forensics (Self-Paced)

Program Aspects

Modular Assignments	20+	Strengthen your understanding of Cyber Security with 20+ Modular Assignments
Projects	9+	3 Real-time Industry Grade Projects to consolidate your Cyber Security learning
Case Studies	20+	Gain a better understanding of Cyber Security with both Project and Problem based 20+ Case Studies
Features & Tools	50+	Practice your skills in our advanced Cyber Security Lab with 50+ features and tools

Tools, Languages & Frameworks

KALI LINUX	NMAP	acunetix	BURPSUITE	FOCA	hPing
MALTEGO	metasploit	Recon-NG	SET	SHODAN	

Capstone & Live Session Projects

The projects and assignments will help you accumulate real-world experience in different industries like:

- IT Industry
- Healthcare Industry
- Entertainment Industry
- Retail Industry
- Electronics Industry
- Finance Sector
- Logistic Industry
- Telecom Industry
- Media Industry

Capstone Project

Flipkart like E-Commerce Website Hacking

Problem Statement:
This project simulates a real-life e-commerce website with over 90 known vulnerabilities. The system is intentionally running an outdated operating system that is known to be vulnerable to exploits, in order to provide a realistic testing environment.

Secure Environment Challenge

Problem Statement:
Cybersecurity professionals need a way to learn about and test for the latest trending vulnerabilities and exploits on the frameworks used in an enterprise. This box contains multiple vulnerable application frameworks that can be exploited to cause significant damage.

Some of the Live Session Projects

- Crafting Payloads for Exploitation
- Running multiple tools for scanning a target
- Source Code analysis and Runtime Testing
- Request and Packet manipulation
- Identifying and Chaining vulnerabilities for an attack
- Performing Social Engineering operations

Instructors, Mentors & Influencers

Bipin Kulkarni
CISO/Mentor/Security Evangelist

Shivendra Saxenai
Senior Director, Security and Privacy

Gaurav Sharma
Founder and Consultant

Admissions Process

1 Fill the Enrolment Form

You will be required to provide personal, educational, and professional details. Once we receive your details, our Admissions Counselor will reach out to take your candidature further.

2 Take the Interview & Get the Offer Letter

A one-on-one chat with our SME to understand your basic knowledge, prior work experience, and your expectations from the course. After your interview assessment, you will receive an offer letter from us.

3 Pay the Batch Confirmation Fees

Based on your scholarship form and interview performance, your final fee will be determined. You need to make an upfront payment to confirm your class batch.

4 Get Your Batch Allotment

After the payment formalities, you will be given course credentials and your learning journey will begin!

Eligibility

A potential candidate must have one of the following prerequisites:

- ○ Should have studied PCM in 10+2
- ○ Any Undergraduate Degree like BCA, B.Tech, B.E, B.Com etc
- ○ Any Diploma holder with basic programming knowledge can also apply

Program Fee

Program Fee	₹ 99,000/- excluding of all taxes
EMI Plan	EMI starts at ₹ 8999/- per month

Contact Us

For further details, please reach out to:

- 📞 +91 80350 68127
- ✉ admissions.pgp@edureka.co

Follow us on:

- ⊙ https://www.instagram.com/edureka.co/
- (f) https://www.facebook.com/edurekaIN
- (in) https://www.linkedin.com/company/edureka/
- ▶ https://www.youtube.com/user/edurekaIN'

edureka!
a Veranda Enterprise

IndiQube ETA
5th Floor, No. 38/4, Dr Puneeth Rajkumar
Rd, adjacent to Dell EMC2, Doddanekundi,
Bengaluru, Karnataka 560048