



# IT CAREER COMPASS: CODING VS NON-CODING ROLES

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# IT CAREER COMPASS: CODING VS NON-CODING ROLES



## Challenges People Face,



- The perspective, IT = coding ??
- Don't know options.
- Where to begin??

# IT CAREER COMPASS: CODING VS NON-CODING ROLES



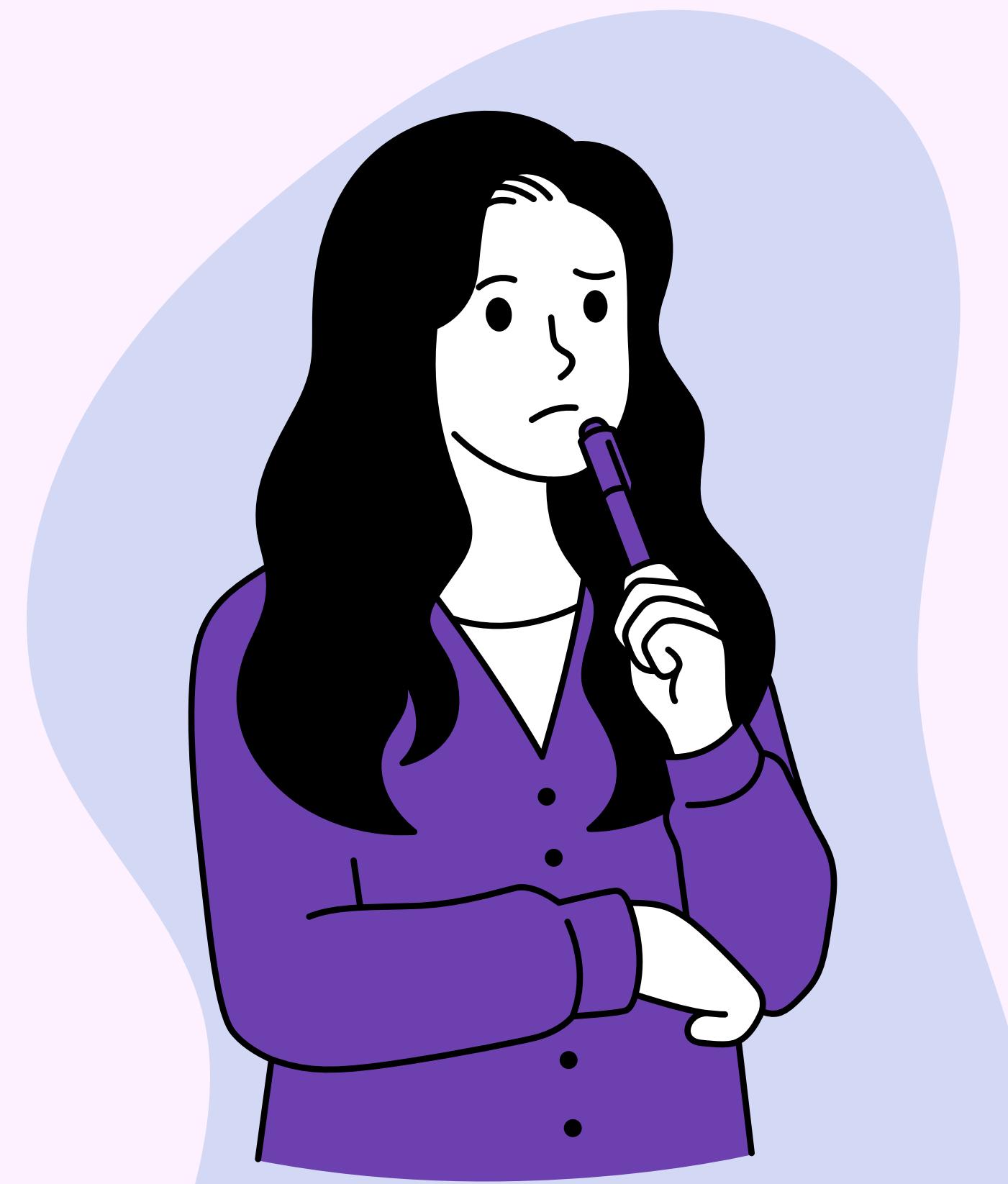
## Purpose of this document



- 1. Clarity about IT job roles,**
- 2. Direction(to start or guide you),**
- 3. Confidence to choose a career path in IT**

# IT is Still the Best Career Choice

Why??



# IT is Still the Best Career Choice



**Digital backbone:**  
**Every industry: banking, healthcare, retail, manufacturing, runs on IT systems.**

**Digital transformation:**  
**Companies are shifting from manual to automated systems, cloud, and AI to stay competitive.**

**Scalability & global reach:**  
**IT helps organizations expand, connect teams, and serve customers worldwide.**

# IT is Still the Best Career Choice



**Banking**



**Data-driven decisions:**

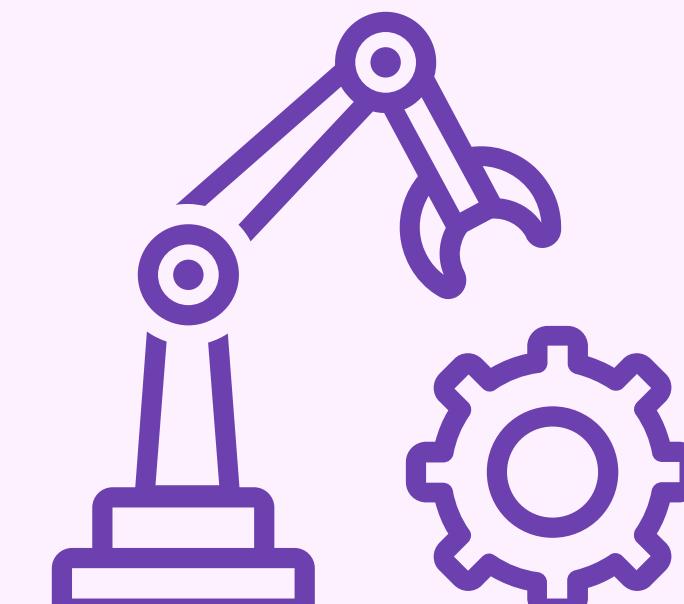
**IT enables collection, analysis, and insights from data for smarter business moves.**



**Retail**



**Healthcare**



**Manufacturing**

# IT is Still the Best Career Choice



**Cybersecurity:**  
**Rising cyberattacks make IT security jobs critical to  
protect systems and customer trust.**

# IT is Still the Best Career Choice

**Emerging technologies:**  
Cloud, AI, machine learning, and automation are creating new specialized roles.



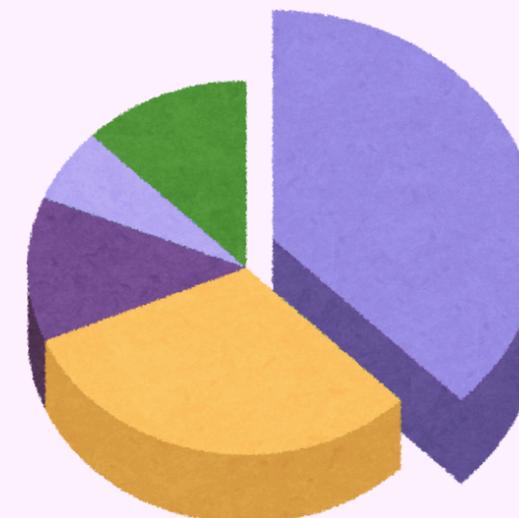
**Real-world examples:**  
Banks use IT for fraud detection, hospitals for patient management, e-commerce platforms like Flipkart and Amazon for 24/7 operations.



# IT is Still the Best Career Choice



- Globally ,15–20% growth in IT job opportunities.
- In India ,22% growth in IT job opportunities.



Resource :Business Standard/ Times of India

# IT is Still the Best Career Choice



**Why India is a big market for IT sector globally?**



# IT is Still the Best Career Choice



**The biggest factors are,**

- **Cost efficiency**
- **A large skilled workforce**
- **Growing tech ecosystem.**

**\*\*India has one of the largest pools of English-speaking IT professionals in the world.**

# IT is Still the Best Career Choice



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# Why IT Careers are Good for Us Today



**Hybrid/Remote**

**Remote flexibility:**

**Many IT jobs allow remote or hybrid work,  
giving employees location freedom.**

# Why IT Careers are Good for Us Today



**Work-life balance**

**Work-life balance:  
Hybrid models help reduce commute  
stress and save time.**

# Why IT Careers are Good for Us Today



**Global opportunities:**  
**Remote IT roles let professionals in India**  
**work for international companies**  
**without relocating.**

# Why IT Careers are Good for Us Today



**Women's benefit:**

**Remote/hybrid setups especially support women in balancing career growth with family responsibilities.**

# WOMEN-FRIENDLY AND CAREER RESTART PROGRAMS IN IT



**Many IT companies and platforms are running women-friendly and restarter-friendly programs**

# WOMEN-FRIENDLY AND CAREER RESTART PROGRAMS IN IT



herkey

**HerKey (formerly JobsForHer):**  
A platform dedicated to helping women restart careers after a break, offering mentorship, training, and job opportunities.

Infosys®

**Infosys Restart with Infosys:**  
A program designed to hire and support professionals, especially women, returning to the workforce after a career gap.

tcs TATA  
CONSULTANCY  
SERVICES

**TCS iON Rebegin:**  
Focuses on second career opportunities for women, offering flexible work options.

# WOMEN-FRIENDLY AND CAREER RESTART PROGRAMS IN IT



 **IBM Tech Re-Entry:**  
Helps professionals rejoin the tech industry  
with training and real project exposure.

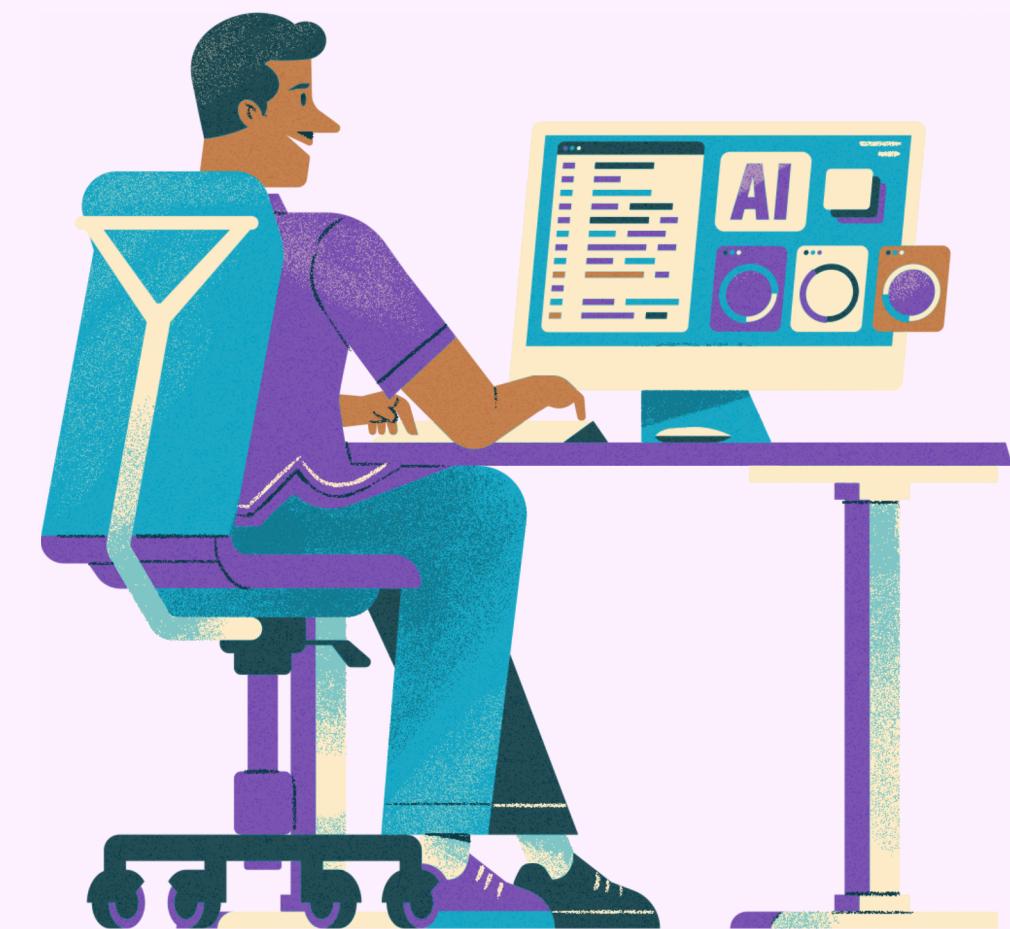
 **Accenture Return to Work:**  
Provides mentoring, reskilling, and flexible  
roles for women returning from breaks.

# AI & AUTOMATION CREATING NEW IT ROLES



**While automation replaces some repetitive tasks,  
It's actually opening new opportunities in areas like**

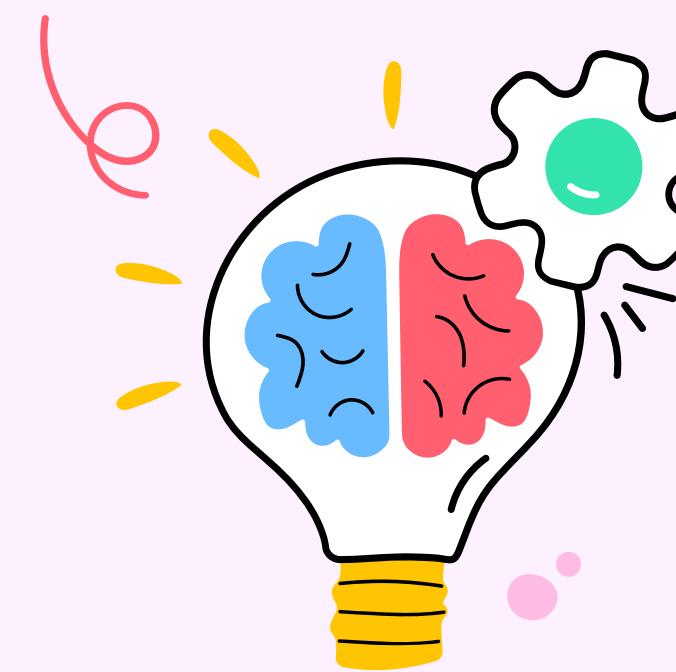
- **AI ,**
- **Engineering,**
- **Data science,**
- **Cloud architecture,**
- **Cybersecurity, and**
- **Prompt engineering.**



# AI & AUTOMATION CREATING NEW IT ROLES



**Companies value employees who reskill in AI, automation tools, and advanced analytics.**



# IT JOB ROLES

## Non-coding Roles



## Coding Roles



OR

# IT JOB ROLES

## Coding Roles



- Solve technical problems.
- Build applications.
- Design systems/modify systems.

# IT JOB ROLES

## Coding Roles



### Skills Needed,

- Strong Programming skills
- Logical thinking.
- Problem-solving mindset.



# IT JOB ROLES

## Non - Coding Roles



- Understand the business side.
- Gather requirements
- Talk to stakeholders
- Ensure tech is going smooth

# IT JOB ROLES

## Non - Coding Roles

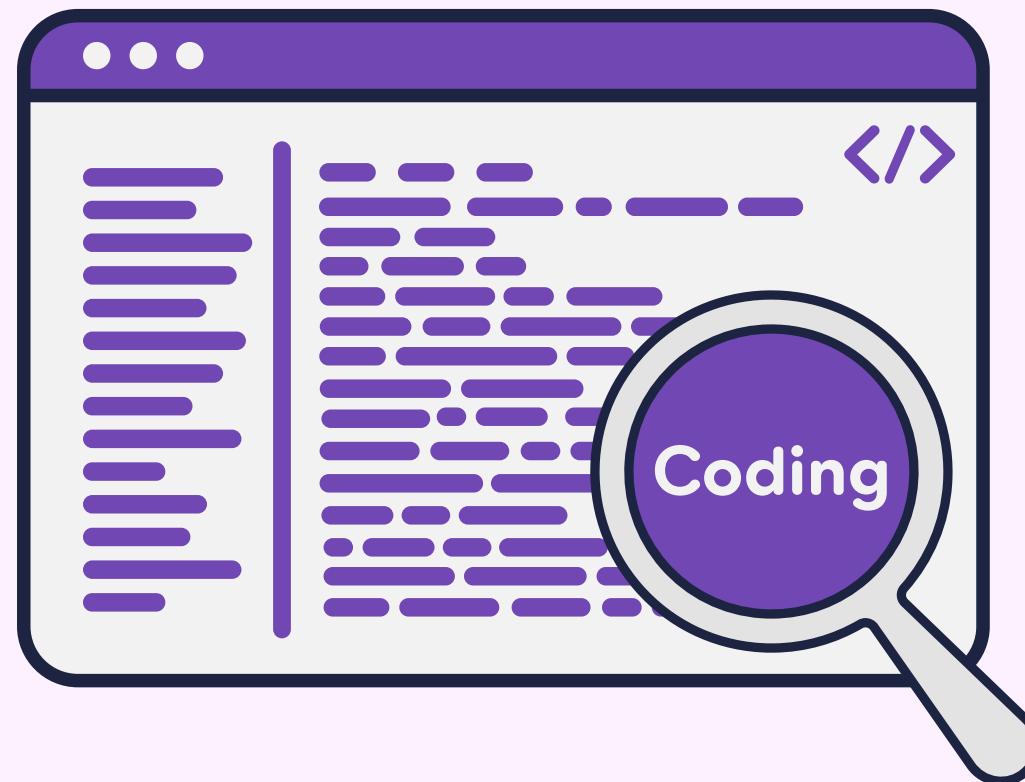


### Skills Needed,

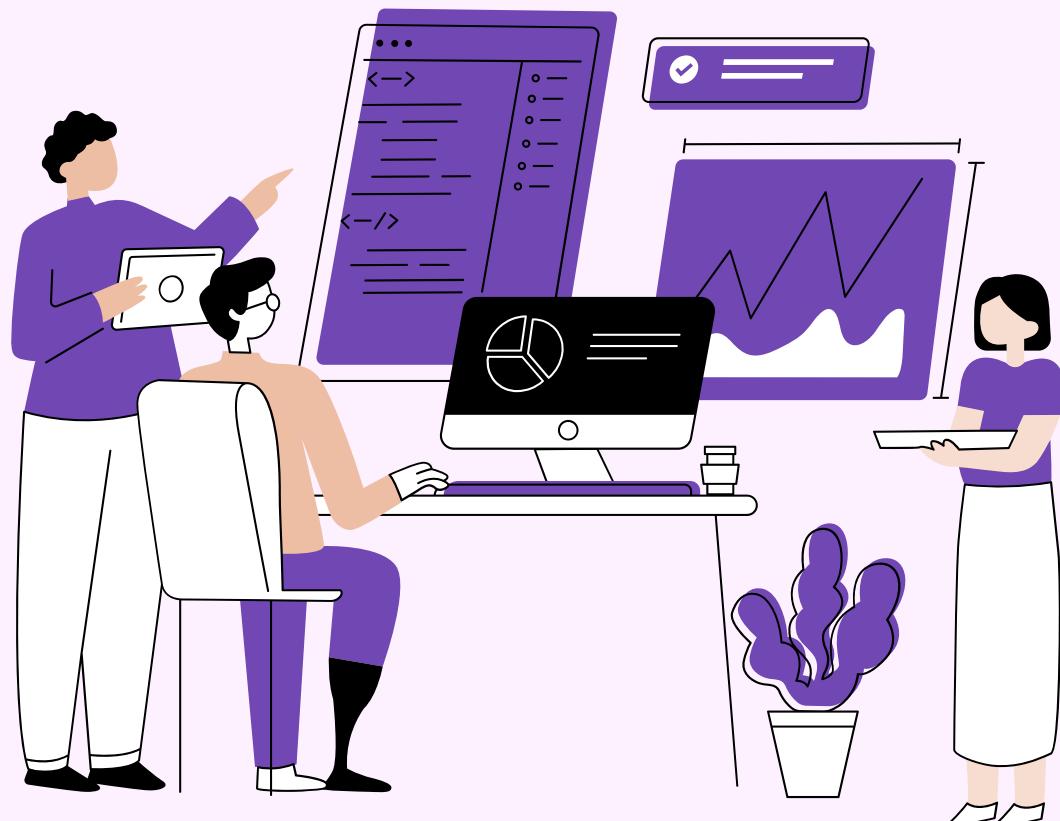
- Business Understanding
- Communication
- Analytical Thinking
- Project Management
- Documentation & Reporting

# IT JOB ROLES

**Coding roles  
build the solution**



**Non-coding roles define  
the what and why.**



# CODING ROLES

Developer/Programmer

Data Science/Machine Learning Expert

Cloud/DevOps

Automation Expert



# NON-CODING ROLES

Business Analyst

Scrum Master

Project Manager

UI/UX Designer

QA / Support

# POPULAR CODING ROLES

**1. Python Developer/Java Developer**

**2. Frontend Developer**

**3. Data Analyst / ML Engineer**

**4. Full Stack Developer**

**5. DevOps Engineer**



# POPULAR CODING ROLES

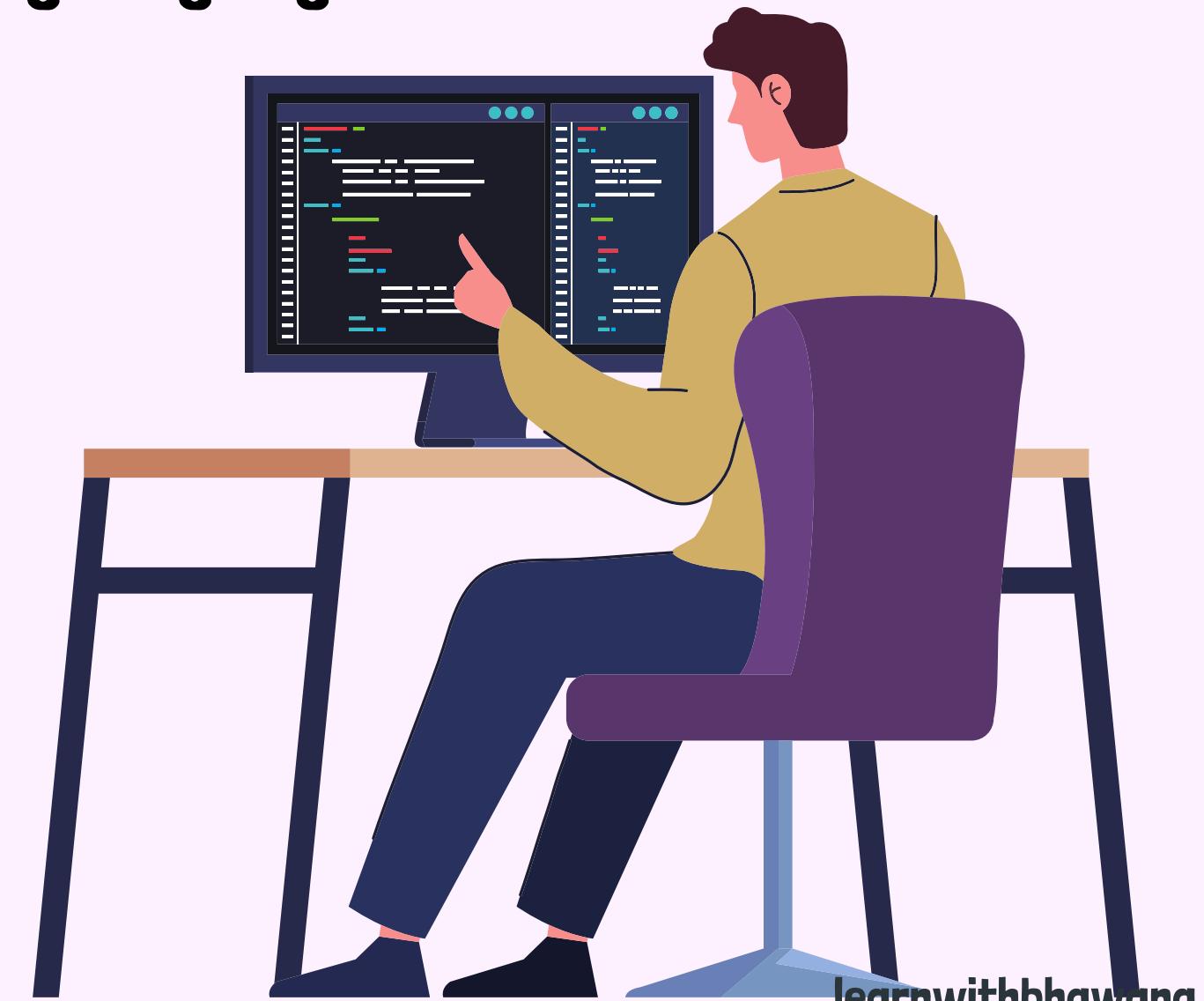
## 1. Software / Frontend / Full Stack Developer (Coding Role)

**What they do :**

**Build websites, apps, and software features using programming languages.**

**Key Skills & Tools:**

- **HTML, CSS, JavaScript, React**
- **Python/Java**
- **Git / GitHub**
- **VS Code**
- **Problem-solving & debugging**



# POPULAR CODING ROLES

## 2. Data Analyst / Data Scientist (Coding Role)

**What they do :**

Analyze data, create dashboards, and help businesses make decisions.

**Key Skills & Tools:**

- Python / SQL / Excel
- Power BI / Tableau
- Data visualization
- Statistics basics



# POPULAR CODING ROLES

## 3. DevOps / Cloud Engineer (Coding + Tools Role)

**What they do :**

**Manage deployment, automation, and cloud infrastructure.**

**Key Skills & Tools:**

- **AWS / Azure / GCP**
- **Docker / Kubernetes**
- **Git / CI-CD**
- **Linux basics**



# POPULAR NON-CODING ROLES

## 1. Business Analyst (Non-Coding Role)

**What they do :**

**Understand business needs and act as a bridge between clients and tech teams.**

**Key Skills & Tools:**

- Requirement gathering
- Communication & documentation
- Excel / Jira / Confluence
- Problem-solving



# POPULAR NON-CODING ROLES

## 2. UI/UX Designer (Non-Coding Role)

**What they do :**

**Design user-friendly apps, websites, and digital interfaces.**

**Key Skills & Tools:**

- **Figma / Adobe XD / Canva**
- **Wireframing & Prototyping**
- **Creativity & visual sense**
- **User research**



# POPULAR NON-CODING ROLES

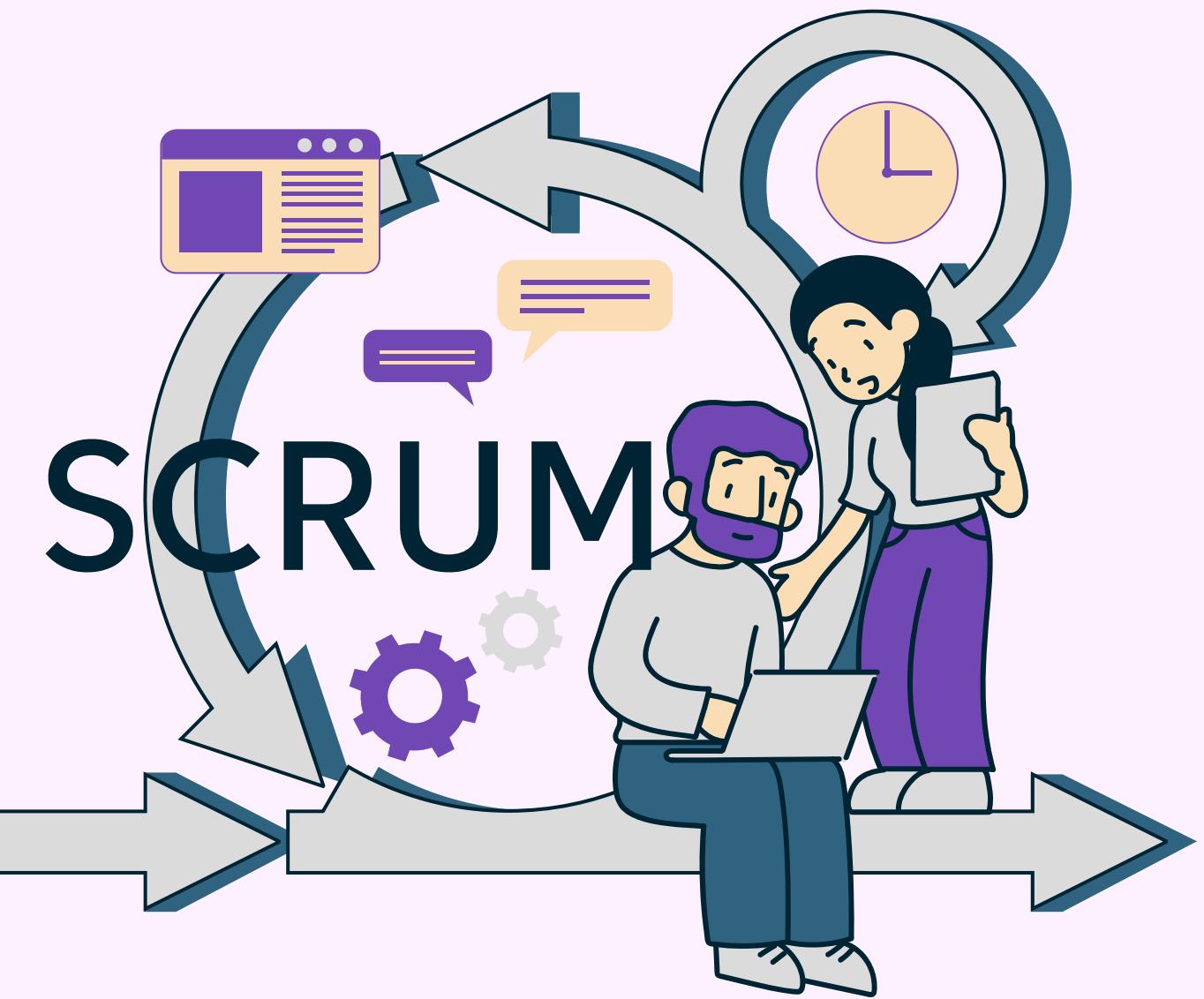
## 3. Product Manager / Scrum Master (Non-Coding Role)

**What they do :**

**Plan features, manage teams, and ensure project delivery.**

**Key Skills & Tools:**

- Jira / Trello / Agile tools
- Communication & planning
- Roadmapping
- Coordination



# POPULAR NON-CODING ROLES

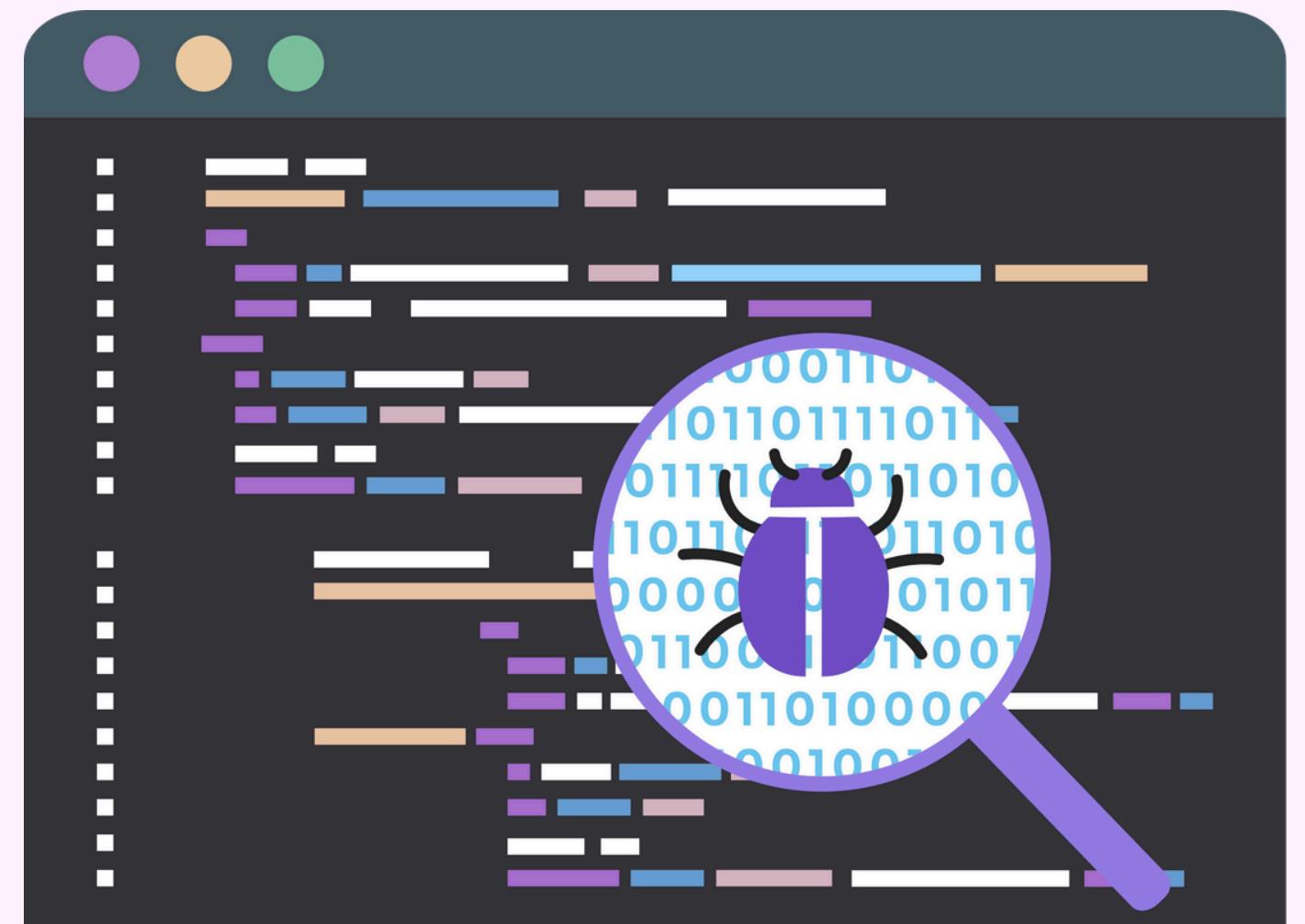
## 4. QA / Software Tester (Non-Coding or Minimal Coding Role)

**What they do :**

**Test websites, apps, or software to find bugs before launch.**

**Key Skills & Tools:**

- **Manual Testing**
- **Basic SQL (optional)**
- **Jira / Bugzilla / TestRail**
- **Attention to detail**
- **Automation basics (Selenium) – optional**



# POPULAR NON-CODING ROLES

## 5. IT / Tech Support Specialist (Non-Coding Role)

**What they do :**

**Help users resolve technical issues in software, systems, or networks.**

**Key Skills & Tools:**

- **Communication & troubleshooting**
- **Ticketing tools (Zendesk, ServiceNow)**
- **Basic networking/system knowledge**
- **Patience & problem-solving**



# POPULAR NON-CODING ROLES

## 6. Pre-Sales / Solution Consultant (Non-Coding or Hybrid Role)

**What they do :**

**Explain tech products to clients, give demos, and support sales teams.**

**Key Skills & Tools:**

- **Presentation & communication**
- **Product knowledge**
- **MS PowerPoint, Excel**
- **Customer understanding**



# POPULAR NON-CODING ROLES

## 7. Digital Marketing / SEO Specialist (Non-Coding Role)

**What they do :**

**Promote products and services online through websites, ads, and content.**

**Key Skills & Tools:**

- **SEO, Google Analytics**
- **Canva / WordPress / HubSpot**
- **Social media strategy**
- **Copywriting basics**



# SKILLS FOR IT JOB ROLES



**If you're curious about how to learn  
these roles and skills, just check the  
Resources in the next slide.**



# RESOURCE PAGE



## For Coding Roles:

- **Apna College**
- **Anuj Bhaiya**
- **Telusko**
- **Code with Harry**
- **Traversy Media**
- **FreeCodeCamp**
- **Simplilearn**



## For Non-Coding Roles:

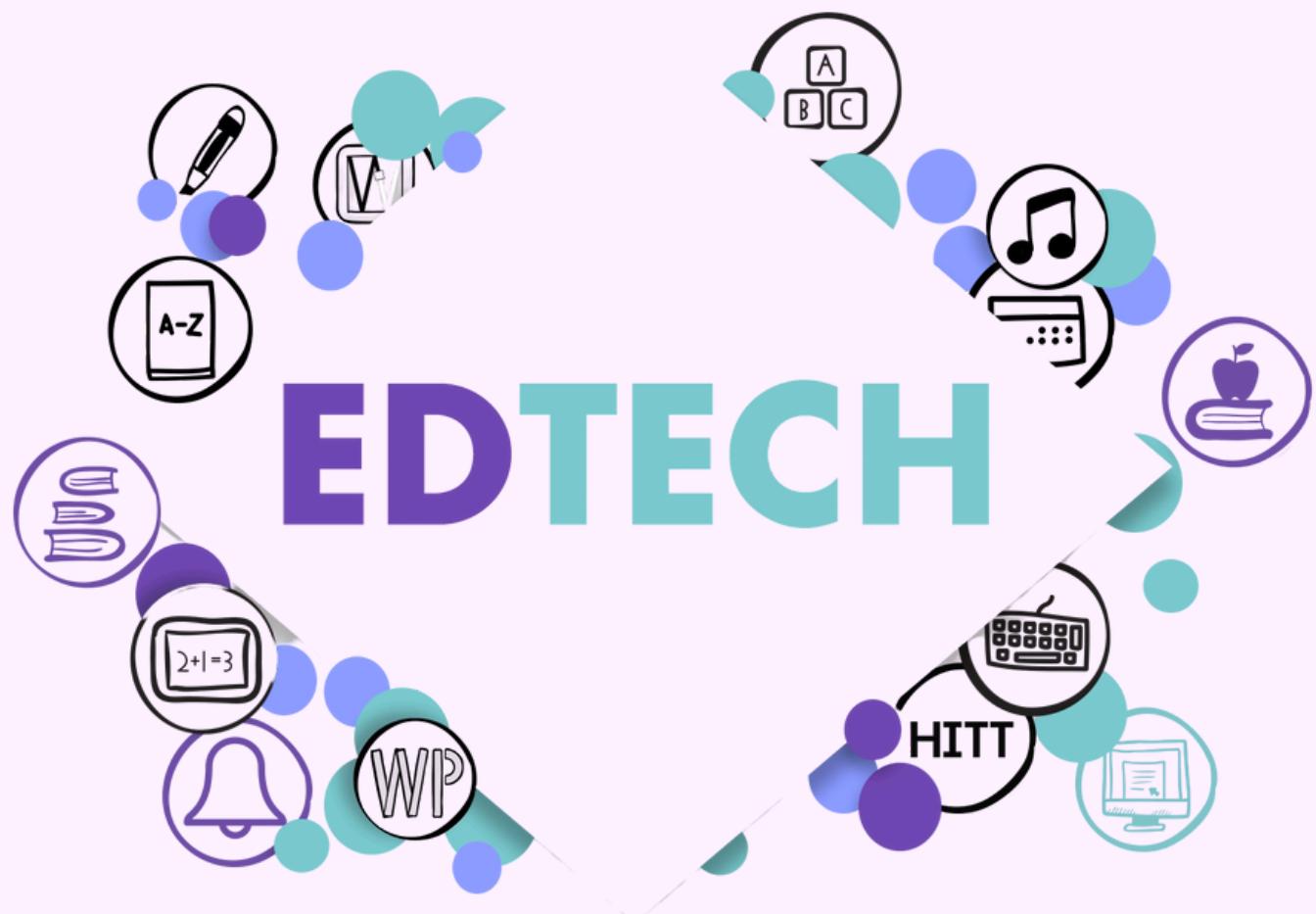
- **Google UX Design Channel**
- **Business Analysis Excellence**
- **Product School**
- **CareerVidya**
- **Think School (Product/BA/PM insights)**
- **Simplilearn**



# RESOURCE PAGE



## EdTech Platforms (Free + Paid)



- Coursera
- Udemy
- Great Learning
- Simplilearn
- EdX
- Skillshare
- UpGrad
- Alison
- HubSpot Academy (Non-coding)



# RESOURCE PAGE



## LinkedIn Learning (Skill-Based Learning)



LEARNING

### Great for:

- **Business Analyst**
- **Product Manager**
- **Scrum Master**
- **UI/UX**
- **Excel, Jira, Agile, Communication Skills**



# RESOURCE PAGE



## Role-Specific Free Resources



### Coding Roles:

- **FreeCodeCamp.org**
- **Kaggle (Data Science & ML)**
- **W3Schools (Web Dev)**
- **GeeksforGeeks**
- **HackerRank (Practice)**

### Non-Coding Roles:

- **Figma Community (UI/UX)**
- **Jira / Confluence tutorials on YouTube**
- **PMI.org (Product/Scrum/Agile)**
- **BA Times (Business Analyst)**
- **HubSpot (Digital Marketing, PM basics)**



# RESOURCE PAGE



## Certifications (Optional but Useful)



- **Google UX Design (Coursera)**
- **PMI-ACP / Scrum Alliance (Scrum Master)**
- **IIBA ECBA (Business Analyst)**
- **AWS / Azure (Cloud & DevOps)**
- **IBM Data Analyst (Coursera)**
- **Meta Frontend Developer (Coursera)**

# BEFORE ENDING



- **Which role interests you more?**
- **Do you still think coding is mandatory for IT?**

# CALL TO ACTION



- **Explore 1 coding + 1 non-coding role**
- **Start a learning plan**
- **Connect with mentors (LinkedIn, HerKey)**



# THE END!

Thankyou

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