



code unnati

Centre of Excellence on Emerging Technologies



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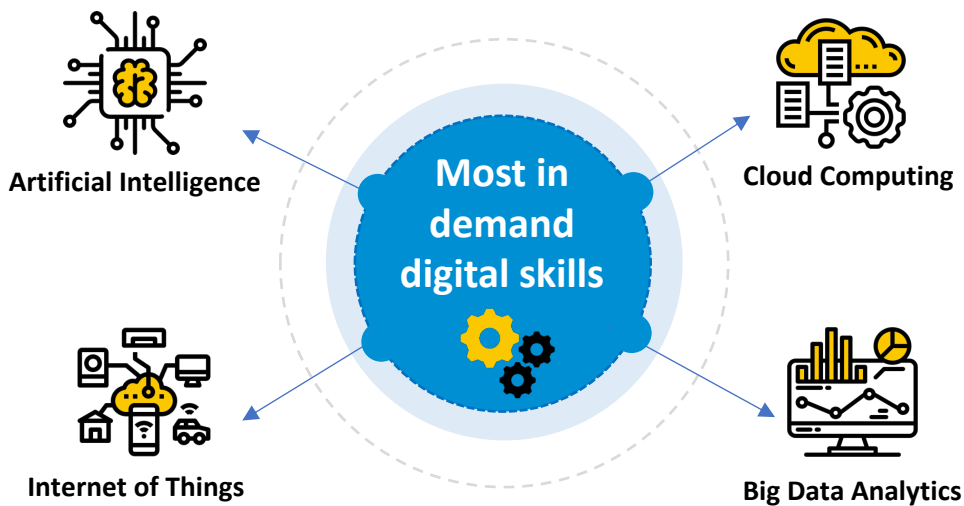


The need addressed through the Code Unnati Program

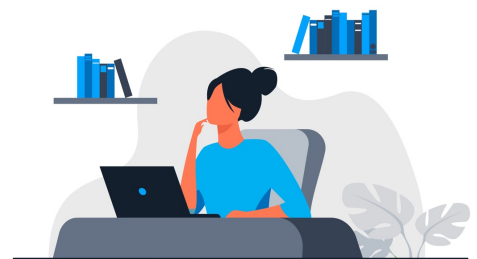
According to the estimates of the 803 companies surveyed in India, employers anticipate 69 million new jobs to be created over the next 5 years.

The fastest growing roles are being driven by technology and digitalization. The employment of data analysts and data scientists, big data specialists, AI machine learning specialists and cybersecurity professionals is expected to grow on an average by 30% by 2027.

(*Future of Jobs Report 2023 by World Economic Forum, 1st May 2023)



India is expected to see a significant increase in the adoption of digital technologies, such as cloud computing, data analytics, and artificial intelligence (AI), in the coming years. These technologies are transforming the way businesses operate and are enabling organizations to become more efficient.



By 2027 the demand for emerging tech skills in India will grow by 30%



Code Unnati Program by (SAP & Edunet Foundation)

Code Unnati is a corporate-to-citizen digital literacy and IT skills development initiatives, launched in June 2017. SAP is committed to improve people's lives and create a lasting impact. Code Unnati is premised on the mission of powering opportunity through #DigitalInclusion. It is a multi-stakeholder, multi-year program which is a collaborative effort between SAP, CSR wings of different corporate companies, and Government as well as non-profit organizations. It aims to increase the lease of knowledge, expertise, and resources available to scale-up, reach a greater audience, and magnify impact.

Benefits of joining the Code Unnati Program

The program focuses on upskilling the students in second/ pre-final / final year of their Engineering Degree courses, and thus provide them an edge over the larger cohort of students completing their Engineering Degree programs, when they go for job placements / employment post completion of the Engineering degrees.

As the Industrial Revolution 4.0— which according to salesforce, “is a fusion of advances in AI, robotics, IoT, 3D printing, genetic engineering, quantum computing, and other technologies” — is bringing about transformative changes in almost every industry and businesses.

Thus, the Code Unnati Program lets you focus on some of the major tech trends that are crucial to keep up with, if you don't want to run the risk of being left behind.

Code Unnati Program offers the following:

(1) Machine Learning and Artificial Intelligence: As artificial intelligence (AI) is rapidly growing beyond the tech industry, today we see that it has penetrated into education, hardware and networking, healthcare, design, consumer goods, finance, retail, wellness and fitness, real estate, energy and mining, software and IT services, manufacturing, entertainment, corporate services, transportation and logistics and beyond.

Let's look at the most in-demand AI skills:

- Industry 4.0 application development with high in demand open-source industry relevant tools such as Linux, Python programming with frameworks and packages.
- Statistical modelling for developing modern AI applications
- Deep learning for computer vision-based AI applications
- Heterogenous computing to deploy AI workload

(2) Internet of Things & Cyber Security in Internet of Things: As the IoT invades into our day-to-day lives in the form of smart watches that can monitor our health, or internet-enabled home entertainment system, or a smartphone app-connected light bulb, its presence in our lives is all-pervading. On a bigger scale, industries and manufacturing companies continue to use IoT for maintenance and tracking, supply chain, energy consumption, shipping and logistics, regulatory compliance, smart city projects, oil and gas, retail and insurance among others. The most in-demand skill sets required to advance your career in this sector:

- Hardware abstraction to design and develop edge devices for data acquisition and monitoring through sensors and transducers
- Designing IoT based consumer and industry products through hardware integration
- Connecting real world to the virtual world using gateway devices
- Cloud computing to store and process data
- Data science skills for descriptive, diagnostic, predictive, and prescriptive data analysis
- Cyber security for endpoint and software security, especially to protect IoT devices from vulnerabilities and cyber attacks

(3) Enterprise Resource Planning tools for Industry-specific Applications: Systems, Applications & Products in Data Processing for industry specific applications. Student will gain practical learning on the following tools:

- ERP Essentials: Explore about SAP technical modules
- Advanced Business Application Programming on SAP Business Technology Platform
- SAP Analytics Cloud

(4) End to End Solution Development: Developing solutions for real life Industry and community problems.

(5) Employability Skills Module: Problem solving, critical thinking, Effective Communication, Presentation skills, GD & PI skills, resume building & digital profile building.

Learner Journey



Duration of the Course: 70 hours for second year and 115 hours each for pre-final and final year students who will undergo theoretical and hands-on training, submit capstone projects, participate in showcase events and avail placement support upon successful completion of program requirements.



Who can Participate: Second, pre-final and final year students from engineering degree programs in IT, Computer Science, Electronics & communication, and circuit branches having interest & qualifying level IT competencies in programming



Selection Process: Through student orientation followed by a **Screening Assessment** on interest level & basic programming competencies

About SAP in India



SAP India is the fastest growing subsidiary of SAP SE, the world's leading provider of business software solutions. SAP India began its operations in 1996 with headquarters in Bangalore and offices in Mumbai, New Delhi, Kolkata, and a direct presence in nine cities across India, besides having marketing associates in Sri Lanka and Bangladesh.

Founded in November 1998, SAP Labs India drives SAP's product strategy, is responsible for SAP core solutions and provides product localization and India specific solutions. Unique to SAP Labs India is that it represents the entire breadth of SAP product portfolio and contributes to SAP flagship products such as SAP HANA, the platform for next generation applications and analytics; SAP S/4HANA, the real-time ERP suite for digital business and holds key product responsibilities across the Customer Engagement, Human Capital Management, Analytics and IoT portfolios.

About Edunet Foundation



Edunet Foundation (EF) was founded in 2015 to create educational networks that promote employability and entrepreneurship. The organization has enjoyed Special Consultative Status with the Economic and Social Council (ECOSOC) of the United Nations since 2020. With a national footprint, EF's programs, online and instructor-led, benefit tens of thousands of learners every year.

For further details about the Program: visit our website



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