# **EDUCATING SCHOOL STUDENTS**

21GNP301L – COMMUNITY CONNECT

#### Submitted by

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## DEPARTMENT OF NETWORKING AND COMMUNICATIONS

## COLLEGE OF ENGINEERING AND TECHNOLOGY

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

## KATTANKULATHUR- 603 203

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# SRM INSTITUTE OF SCIENCE AND TECHNOLOGY KATTANKULATHUR – 603 203

## BONAFIDE CERTIFICATE

Certified that **21GNP301L Community Connect** report titled “**TEACHING SCHOOL STUDENTS**” is the bonafide work of “**Mitun M[RA2211032010090]**” who carried out the community work under **Government Boys Higher Secondary School, Periyampatti, Dharmapuri, Tamil Nadu**. Certified further, that to the best of my knowledge the work reported herein does not form any other report or dissertation based on which a degree or award was conferred on an earlier occasion on this or any other candidate.

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### COMMUNITY CONNECT COMPLETION CERTIFICATE

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### COMMUNITY CONNECT LOG SHEET

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### OBJECTIVES AND MOTIVATION

Teaching technology to school students aims to equip them with essential skills and confidence to thrive in a digital world. By learning basic digital skills—like navigating computers, apps, and the internet—they become familiar with tools they'll use throughout life. Technology lessons also promote critical thinking and problem-solving as students explore coding, design, and hands-on projects that require them to analyse issues and think creatively.

Additionally, technology education prepares students for future careers by introducing them to in-demand skills, making them more adaptable to fast-changing tools and work environments. Developing adaptability is key, as the pace of technological advancement means they’ll continually encounter new tools and systems. Just as important is teaching responsible and ethical use of technology, so students understand the importance of online privacy, respectful interactions, and the responsible use of information. Technology also supports subjects like science and math, making these areas more engaging and interactive, which can lead to a deeper understanding of these fields. Ultimately, tech education builds confidence and a mindset of curiosity, encouraging students to explore, learn, and ask questions. With these skills, students are better prepared for future challenges, both personally and professionally, in an increasingly digital world.

Choosing to teach school students about technology as a community service is a powerful way to make a lasting impact on young lives and the broader community. By teaching essential digital skills, you empower students to confidently navigate a digital world, preparing them for academic and future career success. This work helps bridge the digital divide, ensuring that students from all backgrounds have equal opportunities to learn, especially those who may not have access to technology at home. Through technology education, students also develop valuable problem-solving skills and creativity, allowing them to express themselves and think critically. Additionally, you have the opportunity to teach safe and responsible online behavior, equipping students with the knowledge to make informed choices in the digital space.

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### **CHAPTER 1**

### INTRODUCTION ABOUT THE ORGANIZATION

### The organization that I have worked is a Government Boys Higher Secondary School that is located in Periyampatti, Dharmapuri, Tamil Nadu. I have chosen to educate the students about technology and career guidance.

### Government Higher Secondary Schools play a crucial role in building the foundations of education and development in our society. They provide accessible education for students from diverse backgrounds, equipping them with essential skills for academic and personal growth. As the world becomes increasingly reliant on technology, it’s important for schools to prepare students with not only basic academic knowledge but also technological proficiency. This understanding of technology empowers students, helping them to succeed in a digital world.This initiative aims to educate students about the latest technological advancements and practical applications, bridging the gap between traditional curriculum and modern tech skills. By connecting students with technology in practical and meaningful ways.

### The career guidance component of the program provides students with mentorship on career planning, skills assessment, and goal setting. Through one-on-one counseling, students are introduced to potential career options, higher education pathways, and skill-building resources tailored to their aspirations.

### By integrating technology education with career guidance, our school empowers students with the confidence to make informed decisions about their futures. This community-centered approach enables students to explore their potential, develop critical skills, and ultimately build fulfilling careers, contributing positively to their communities and society at large.

### **CHAPTER 2**

### PROGRESS REPORT

### **WEEK 1**

### **Service Done:**

### In the first week ofCommunity Connect Service, we focused on introducing students to the concept of Artificial Intelligence (AI). AI is transforming industries worldwide, and understanding its fundamentals is essential for young learners who will grow up in an AI-driven world. The goal of this introductory week was to help students understand what AI is, how it works, and why it’s important in everyday life and various careers.

### **Topics Covered**

### **What is Artificial Intelligence?**

### Began with a basic explanation of AI as the science and engineering of making computers or machines "smart," allowing them to make decisions, solve problems, and learn from data. Students were introduced to the idea of AI mimicking certain human abilities such as recognizing speech, identifying images, and even making decisions.

### **Types of AI**

### Students learned about the two main types of AI:

### *Narrow AI*: Systems designed to perform specific tasks, like a voice assistant or a recommendation algorithm.

### *General AI*: A more advanced type of AI that doesn’t yet exist but refers to machines with capabilities similar to human intelligence, adaptable across a wide range of tasks.

### **Real-World Applications of AI**

### Explored examples of AI in everyday life, such as:

### *Voice Assistants*: Google Assistant, Siri, and Alexa, which use AI to understand and respond to voice commands.

### *Image Recognition*: How AI is used in apps like Snapchat and Instagram to recognize faces and apply filters.

### *Recommendation Systems*: How streaming services like Netflix or shopping sites like Amazon use AI to recommend shows or products based on past behavior.

### This section was highly interactive, allowing students to discuss AI examples they may have encountered.

### **Basic Concepts of Machine Learning and Data**

### Students were introduced to machine learning, a major branch of AI, where systems improve from experience and data. We explained the role of data in helping machines "learn" patterns and make predictions.

### The class used simple, relatable examples, like predicting weather based on past conditions or recognizing patterns in music preferences.

### **Ethics and Responsibility in AI**

### A crucial part of the lesson focused on the ethics of AI, including privacy concerns, data usage, and job automation. This discussion encouraged students to think about the responsibilities associated with using AI and technology wisely.

### **Outcomes:**

### At the end of the week, students had a basic understanding of AI’s potential and its role in their daily lives. Many expressed excitement about how AI might help them in their future careers. This foundation in AI will support their learning as we explore more advanced topics in future sessions.

### **WEEK 2**

### **Service Done:**

### In the second week of the Community Connect Service, the focus is on career guidance to help students envision future career paths and understand the diversity of opportunities available. This session is designed to lay the groundwork for career planning by introducing students to different fields, from traditional areas such as medicine, law, and engineering, to emerging fields like data science, digital marketing, and AI development.

### **Topics Covered**

### **Overview of Career Options and Pathways**

### A broad spectrum of careers is introduced, covering roles and responsibilities, required skills and education, and potential progression. Each field is explained to give students a clear idea of available paths, including traditional and newer fields that have emerged due to technological advancements.

### **Aligning Interests with Career Choices**

### Activities encourage students to reflect on their personal strengths and interests to identify potential career alignments. For example, students with an interest in creativity might explore design or media fields, while those drawn to analytical thinking might consider careers in engineering, science, or programming.

### **Key Skills for the Future Workforce**

### Emphasis is placed on both technical and soft skills needed in the modern workforce, including digital literacy, data analysis, communication, teamwork, and critical thinking. This segment helps students recognize that many skills are transferable, highlighting their value across diverse career paths.

### **Education and Training Pathways**

### The program outlines different educational pathways, covering options such as high school, vocational training, college, and certifications. Various paths are explained, including apprenticeships, community college, university degrees, and online learning, to help students understand the best options to reach their goals.

### **Emerging Career Trends**

### The session also covers careers projected to grow due to advances in technology and economic shifts. Careers in fields such as AI, renewable energy, healthcare technology, and cybersecurity are highlighted as promising choices for future job stability and growth.

### **Outcomes:**

### By the end of the week, students gain a clearer understanding of diverse career options and pathways, helping them feel more confident about their future choices. The career interest assessment and guest sessions inspire students to explore new interests, while the goal-setting workshop provides practical steps for achieving their aspirations. Overall, Week 2 fosters motivation and clarity, equipping students with the knowledge to take informed steps toward a fulfilling career journey.

### **WEEK 3**

### **Service Done:**

### **Digital Literacy and Cyber Safety**

### In the third week of the *Technology and Career Guidance Community Connect Service*, the focus is on digital literacy and cyber safety. As students engage with technology more frequently, understanding digital tools and protecting themselves online becomes essential. This week is designed to help students develop responsible digital habits, navigate online resources confidently, and stay safe in a connected world. By building these skills, students are empowered to make informed decisions, protect their privacy, and use digital platforms effectively.

### **Topics Covered**

### **Understanding Digital Literacy**

### An introduction to digital literacy emphasizes its importance in academics, communication, and career readiness. Students learn about different digital platforms and tools commonly used in education and professional settings, including cloud storage, collaborative software, and digital communication tools.

### **Online Research and Information Verification**

### With an overwhelming amount of information available online, students are taught to evaluate sources critically, verify facts, and distinguish between credible and unreliable information. Techniques for identifying trustworthy sources, fact-checking, and avoiding misinformation are discussed to promote responsible online research.

### **Social Media and Digital Footprint Awareness**

### This topic highlights the long-lasting impact of social media activity and digital footprints. Students learn how their online actions can affect their future opportunities and reputation. This segment covers best practices for social media usage, privacy settings, and how to create a positive digital presence.

### **Cyber Safety and Security Basics**

### Students are introduced to the fundamentals of cyber safety, including recognizing phishing scams, creating strong passwords, and understanding data privacy. This session focuses on teaching safe online behavior, the importance of protecting personal information, and how to avoid cyber threats.

### **Responsible Digital Citizenship**

### Digital citizenship emphasizes respectful and responsible behavior online. Topics include anti-cyberbullying practices, understanding the ethical use of digital resources, and developing empathy in online interactions. Students are encouraged to think about the impact of their words and actions in digital spaces.

### **Outcomes:**

### By the end of Week 3, students develop a stronger sense of digital responsibility and feel more confident navigating the digital world. They gain practical knowledge on protecting themselves online, responsibly managing their social media presence, and understanding their digital footprint's impact. This week equips students with skills crucial for both academic success and personal safety, preparing them to thrive as responsible digital citizens in an interconnected world.

### **CHAPTER 3**

### STUDENTS CONTRIBUTION

### **WEEK 1**

### **Contributions Overview:**

### In the first week of theCommunity Connect Service, students were introduced to the fundamental concepts of Artificial Intelligence (AI). The focus was on helping students understand what AI is, how it functions, and its real-world applications, which laid the groundwork for both technical understanding and informed interest in technology. Here’s an overview of key contributions made through the week’s activities.

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### **Key Contributions**

###  **Building Foundational AI Knowledge**

### Students gained a foundational understanding of AI, learning key concepts such as machine learning and data patterns. This introduction demystified AI, making it accessible and understandable by explaining how computers mimic certain human abilities, like recognizing images and processing language.

###  **Exposure to Real-World AI Applications**

### Through relatable examples—such as voice assistants, image recognition, and recommendation algorithms—students were able to connect AI with their daily lives. This exposure fostered curiosity about AI’s role in society and inspired students to think about potential uses of AI in their own communities.

###  **Encouraging Ethical Awareness in Technology**

### Students were introduced to the ethical considerations surrounding AI, such as data privacy, job automation, and responsible usage. By addressing the ethical side of AI early on, students developed a sense of accountability, recognizing the importance of using technology responsibly.

###  **Fostering Community-Oriented Thinking**

### A brainstorming session encouraged students to think of AI-driven solutions for local community issues, promoting creativity and community-oriented thinking. This activity helped students envision how their knowledge could contribute positively to their surroundings, instilling a sense of social responsibility.

### **WEEK 2**

### **Contributions Overview:**

### In the second week of the Community Connect Service, the focus shifted to career guidance, providing students with insights into diverse career paths, skills needed for the future workforce, and tools for goal-setting. The aim was to help students explore their career options, align their interests with potential paths, and begin planning their educational and professional journeys. Here’s an overview of the contributions made through this week’s activities.

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### **Key Contributions**

### **Expanding Career Awareness and Options**

### Students were introduced to a variety of career fields, covering traditional roles in medicine, engineering, and law, as well as emerging fields such as data science, digital marketing, and AI. This exposure helped broaden their understanding of the wide range of career paths available and allowed them to consider options they may not have known about before.

### **Encouraging Self-Reflection and Interest Alignment**

### Through self-reflective exercises and career interest assessments, students were encouraged to consider how their interests and strengths align with potential career paths. This activity allowed students to discover careers suited to their skills and passions, laying the foundation for making informed career choices in the future.

### **Developing Awareness of Essential Skills**

### The program highlighted both technical and soft skills that are essential in the modern workforce, such as digital literacy, problem-solving, and communication. This focus on skills awareness allowed students to see which abilities they should develop to succeed in various career fields and promoted the importance of transferable skills.

### **Introducing Education and Training Pathways**

### Information on different educational paths—including vocational training, apprenticeships, community college, and university programs—gave students a clearer understanding of the steps they could take to reach their career goals. This overview of educational options helped students make connections between their career interests and the necessary education or training for those fields.

### **Inspiring Real-World Career Insights**

### Guest speakers from different professions shared real-life insights, giving students a realistic view of daily life in various careers. This interaction allowed students to ask questions, gain firsthand knowledge, and connect their classroom learning to actual career experiences, fostering inspiration and practical understanding.

### **WEEK 3**

### **Contributions Overview:**

### In the third week of theCommunity Connect Service, the focus was on digital literacy and cyber safety, aiming to equip students with essential skills for navigating the digital world responsibly and safely. This week’s activities emphasized the importance of online security, responsible social media use, and ethical behavior in digital spaces. Here’s an overview of the contributions made during this week.

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### **CHAPTER 4**

### OUTCOME OF THE SERVICE

### The Technology and Career Guidance Community Connect Service has successfully provided students with foundational knowledge in technology, career guidance, and digital literacy, empowering them to navigate their academic and career pathways with confidence. Through interactive sessions, practical activities, and expert insights, students have gained both knowledge and skills that promote responsible digital engagement, informed career planning, and ethical awareness in technology. These outcomes contribute to creating well-rounded, proactive individuals ready to make meaningful contributions to their communities.

### **Student Learning and Development:**

### **Enhanced Technological Literacy**

### Students have developed an understanding of emerging technologies, including artificial intelligence and digital tools, that will be valuable in their academic and professional journeys. This knowledge enables them to make informed choices in technology and builds their confidence in using digital resources.

### **Informed Career Awareness**

### Through career guidance sessions, students have been introduced to various fields, allowing them to align their interests with suitable career options. The goal-setting exercises have equipped them with a roadmap to pursue their aspirations with clear, actionable steps, laying a foundation for lifelong career planning.

### **Digital Citizenship and Safety**

### Students have learned essential digital safety practices and the importance of maintaining a responsible online presence. With an understanding of cyber threats and the ethical aspects of digital interactions, students are better prepared to protect themselves and engage respectfully in digital spaces.

### **Skill Development and Self-Awareness**

### Activities that encourage self-reflection, like career assessments and digital footprint evaluations, have fostered self-awareness, helping students recognize their unique skills and interests. These exercises also highlight the importance of continuous learning and adapting to evolving technologies.

### **Benefits for the Consumer:**

### **Empowering Future-Ready Citizens**

### The service has nurtured a generation of students equipped with the knowledge, skills, and ethical awareness needed to positively impact their communities. By promoting responsible technology use and career readiness, the program contributes to a more informed, digitally savvy community.

### **Reducing Knowledge Gaps in Technology**

### Many students come from communities with limited access to advanced technology education. This program helps bridge the gap by providing students with foundational technology skills, ensuring they are not left behind in an increasingly tech-driven world.

### **Encouraging Community-Oriented Thinking**

### The program’s focus on community-oriented solutions, such as using AI for local issues, encourages students to think about ways to use their skills for the benefit of society. This mindset fosters community service and can lead to future initiatives that address local challenges.

### **Promoting Digital Safety and Responsibility**

### By equipping students with cyber safety knowledge, the program helps reduce risks associated with online activity within the community. Students can also share their learning with family members and peers, extending the impact and fostering a safer digital environment for everyone.

1. **Boosting Employability and Economic Growth**

* By equipping students with career-ready skills and digital literacy, the program helps to create a more employable workforce within the community. As students enter higher education or the job market with strong foundational knowledge in technology and career planning, they are better prepared to pursue jobs in high-demand fields.

**Long Term Impact:**

The skills and knowledge gained through this program will continue to benefit students as they move into higher education and the workforce, supporting their development as responsible digital citizens and future professionals. For the community, the program’s focus on education, ethical responsibility, and safety helps cultivate a population ready to engage thoughtfully and positively in the digital age, paving the way for a connected, resilient community prepared to thrive in a dynamic world.

 **Fostering Lifelong Learning and Adaptability**

* By introducing students to evolving fields like AI and digital literacy early on, the program encourages a mindset of lifelong learning. This adaptability is crucial as technology continues to advance rapidly. Students who develop an openness to learning and skill-building will be more resilient and better equipped to adapt to changing job market demands and emerging technologies throughout their careers.

 **Creating Tech-Enabled Problem Solvers**

* Exposure to technology as a tool for solving community issues instills problem-solving skills and a sense of responsibility. This early encouragement to use tech for good can inspire students to seek further education or careers in fields like environmental tech, public health, and civic tech, driving long-term positive impact as they work on projects that address real-world problems.

 **Strengthening Community Support Networks**

* The program’s collaborative and community-oriented activities can foster stronger bonds among students, educators, and local professionals. These connections often last beyond the program, creating informal support networks that can be valuable as students navigate their education and careers. Such networks also encourage students to remain connected to their communities, potentially leading to mentorship, community involvement, and peer support in the future.

### **CHAPTER 5**

### CONCLUSION AND FUTURE PLANS

### **Conclusion:**

### The Community Connect Service has successfully provided students with critical skills in technology, career planning, and digital literacy, equipping them to make informed decisions in their personal, academic, and professional lives. This program has not only bridged knowledge gaps but also fostered a community of responsible digital citizens, future-ready professionals, and socially conscious individuals. By addressing both technical skills and ethical considerations, the program has created a well-rounded foundation that will benefit students and the community for years to come.

### **Future Plans**

### To build on the success of this initiative, future plans include:

### **Advanced Technology Modules**

### Offering more specialized courses in emerging fields like robotics, coding, and data analytics. These modules can provide students with in-depth, hands-on learning experiences that align with current industry trends and growing job market demands.

### **Mentorship and Internship Opportunities**

### Establishing partnerships with local businesses and professionals to create mentorship and internship programs. These opportunities will allow students to gain real-world experience, apply what they’ve learned, and build networks that can support their career development.

### **Annual Community Tech Expos**

### Hosting annual technology expos where students showcase their projects and ideas to the community, fostering innovation and encouraging others to get involved. These expos could also feature guest speakers, workshops, and demonstrations to promote digital literacy and technological interest within the broader community.

### **Continuous Career and College Readiness Programs**

### Implementing ongoing career readiness workshops, such as resume writing, interview preparation, and college application guidance. These sessions will provide continual support for students as they progress through high school and prepare for higher education or vocational paths.

### **Alumni Network for Long-Term Engagement**

### Creating an alumni network where past participants can connect, share career advice, and support current students. This network would promote a culture of lifelong learning and community involvement, fostering an enduring commitment to giving back and mentoring future students.

### With these future plans, the program aims to create sustainable impact by continuously evolving to meet new educational and technological needs, ensuring that students and the community stay connected, supported, and prepared for a dynamic future.