







GOVERNMENT COLLEGE OF ENGINEERING [IRTT]



ERODE: 638 316 Electrical and Electronics Engineering

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TEAM ID: NM2023TMID04012 **SB8056-** DIGITAL MARKETING

PROJECT DOMAIN: DIGITAL MARKETING

PROJECT TITLE: CREATING BLOG USING WORDPRESS PLATFORM

BRAND NAME: REALITY OF ENGINEERING

CATEGORY: THE FUTURE OF ENGINEERING: TRENDS TO WATCH IN 2024

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ABSTRACT

Engineering is an ever-evolving discipline that forms the backbone of modern society. This abstract delves into the multifaceted reality of engineering, exploring its core principles, challenges, and the profound impact it has on our daily lives. Engineers are the architects of innovation, tasked with transforming abstract concepts into tangible solutions. The journey from idea to implementation requires a combination of creativity, problem-solving, and technical prowess.

The reality of engineering is marked by a constant pursuit of excellence, fueled by the need to solve complex problems, improve existing systems, and drive progress in various fields. Engineers grapple with the constraints of cost, time, and resources, navigating a landscape where innovation and practicality must coexist.

This abstract examines the importance of interdisciplinary collaboration in engineering, recognizing that the world's most pressing challenges demand diverse perspectives and skill sets. It highlights the ethical responsibilities that engineers bear, emphasizing the need for sustainable and socially responsible solutions.

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Introduction:

➤ The world of engineering is continually evolving, driven by technological advancements, societal demands, and environmental concerns. As we approach 2024, it's crucial to take a closer look at the future of engineering, the emerging trends, and their impact on our rapidly changing world. This project aims to explore and understand the reality of engineering in the coming years, focusing on the trends that will shape the field.

Project Overview:

- In this project, we will examine the key trends and developments that are set to define the future of engineering in 2024 and beyond. Engineering is at the heart of innovation and progress in various industries, and staying informed about the latest trends is essential for professionals, businesses, and policymakers. We will delve into various aspects of engineering, including technology, sustainability, and human-machine collaboration, to provide a comprehensive view of what the future holds.
- ➤ Purpose for "REALITY FUTURE OF ENGINEERING: TRENDS TO WATCH IN 2024":

Purpose:

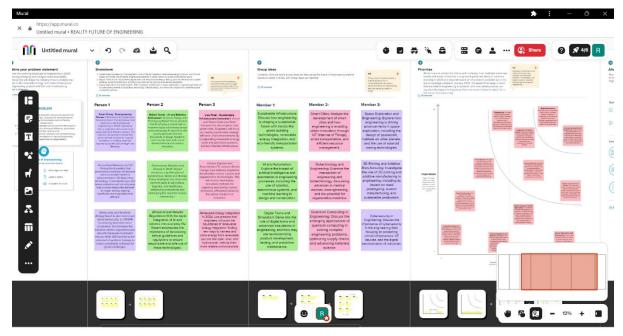
- Inform and Educate: To inform professionals, students, and enthusiasts about the imminent changes and trends in engineering, enabling them to prepare for the future effectively.
- ➤ Promote Sustainability: Highlight the increasing importance of sustainable engineering practices, which are crucial for mitigating environmental challenges and preserving our planet.
- > Encourage Innovation: By exploring cutting-edge technologies and

innovations, we aim to inspire engineers to think creatively and push the boundaries of what is possible.

- ➤ Guide Decision-Makers: Offer insights to policymakers and business leaders to make informed decisions that support the growth of the engineering industry and align with the changing needs of society.
- ➤ Explore Ethical and Social Implications: Discuss the ethical considerations and societal impacts of emerging engineering trends to ensure that progress is not at the expense of social well-being.
- Throughout this project, we will dive into specific engineering trends, technologies, and their practical applications, all within the context of the real world as it is expected to be in 2024. We will explore how these trends are transforming industries, improving our daily lives, and contributing to the advancement of society. The "REALITY FUTURE OF ENGINEERING: TRENDS TO WATCH IN 2024" project aims to be a valuable resource for anyone interested in the dynamic and exciting field of engineering and its role in shaping the future.

BRAINSTORMING AND IDEATION PHASE

2.1 Problem Statement and Understanding



Problem Statement and Understanding:

➤ The field of engineering is in a state of constant evolution, with innovations and trends emerging at an unprecedented pace. To prepare for the future effectively, it's essential to address several key challenges and opportunities in engineering, which can be encapsulated in the following problem statement:

Problem Statement:

➤ How can we anticipate, adapt to, and leverage the emerging trends in engineering to ensure sustainable, innovative, and ethical practices, while meeting the changing needs of society in 2024 and beyond?

Understanding the Problem:

➤ Rapid Technological Advancements: Engineering is being reshaped by a relentless wave of technological innovations.

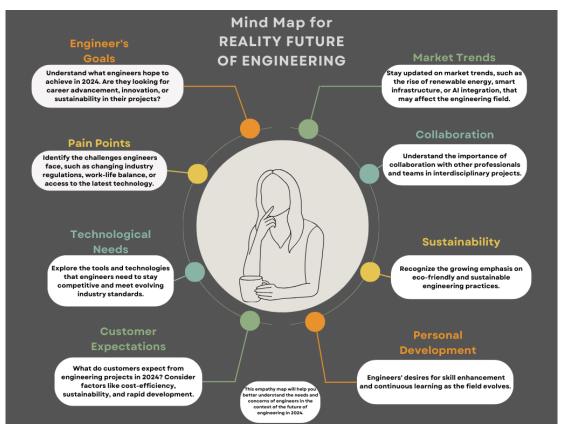
Understanding these advancements and their potential applications is crucial for professionals and organizations to remain competitive and relevant.

- ➤ Sustainability Imperative: The world is facing unprecedented environmental challenges. Engineers must find ways to create solutions that reduce the impact on the planet. This includes cleaner energy sources, efficient transportation, sustainable infrastructure, and waste reduction.
- ➤ Human-Machine Collaboration: Automation, artificial intelligence, and robotics are becoming integral to engineering processes. We need to explore how humans and machines can collaborate effectively to maximize productivity and innovation.
- ➤ **Global Connectivity:** The world is more connected than ever. Engineering must adapt to facilitate global collaboration, communication, and coordination, particularly in a post-pandemic world where remote work and international collaboration are the norm.
- ➤ Ethical and Societal Implications: As engineering advances, ethical considerations and social impacts become increasingly important. Issues related to privacy, security, job displacement, and equitable access to technology need to be addressed.
- ➤ Educational and Workforce Challenges: Preparing the next generation of engineers for these new trends is a pressing issue. How can educational institutions and businesses ensure that the workforce is adequately skilled and adaptable?
- ➤ Regulatory and Policy Frameworks: Engineering innovations often outpace regulatory frameworks. Addressing this challenge involves working with policymakers to create agile and effective regulations that encourage innovation while ensuring public

safety.

➤ By understanding and addressing these challenges, we can pave the way for a future of engineering that is not only technologically advanced but also sustainable, ethical, and responsive to the needs of our changing world. The project "REALITY FUTURE OF ENGINEERING: TRENDS TO WATCH IN 2024" will explore these challenges and provide insights and solutions to help navigate the evolving landscape of engineering.

2.2 Empathy Map Canvas



➤ Creating an empathy map canvas using the MURAL app for exploring the future of engineering and identifying trends to watch in 2024 can be a valuable exercise. An empathy map canvas helps you understand the perspectives, feelings, and needs of your target audience. In this case, you'll be considering the perspectives of engineers and other stakeholders in the field of engineering. Here's

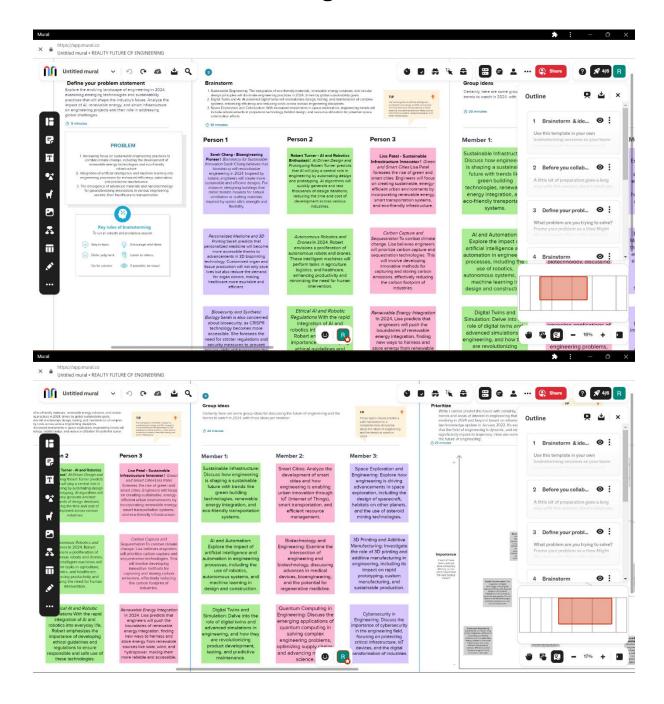
how you can set up your empathy map canvas using MURAL:

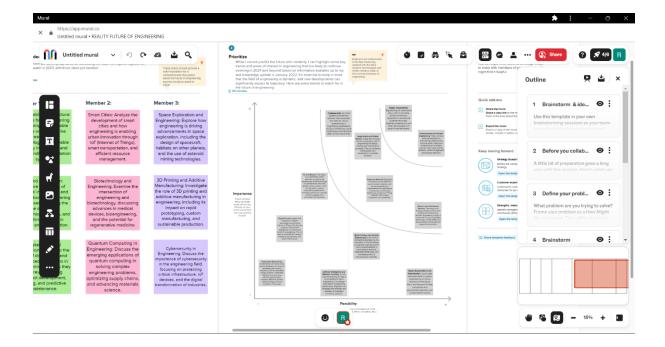
- Create a MURAL Board:
- > Log in to your MURAL account or sign up if you don't have one.
- > Create a new MURAL board for your "Future of Engineering in 2024" project.
- > Set Up the Empathy Map Canvas:
- ➤ Add a central area in the canvas where you can put the title, e.g., "Future of Engineering in 2024."
- Create four quadrants on the canvas. Label them as "See," "Think," "Do," and "Feel."
- > Empathy Map Quadrants:
- > See:
- ➤ In this quadrant, consider what engineers and stakeholders will observe in the engineering landscape in 2024.
- ➤ Add sticky notes or text boxes with observations and trends they'll see, such as new technologies, market changes, and environmental factors.
- > Think:
- In this quadrant, explore what engineers and stakeholders will be thinking about the future of engineering in 2024.
- Add sticky notes or text boxes with their thoughts, concerns, and questions about the industry.
- Do:
- ➤ In this quadrant, document the actions engineers and stakeholders will take in response to the trends and changes.
- Add sticky notes or text boxes describing the initiatives, projects, and strategies they might pursue.
- > Feel:

- ➤ This quadrant is for capturing the emotions, attitudes, and sentiments of engineers and stakeholders.
- Add sticky notes or text boxes with their feelings, such as excitement, anxiety, optimism, or any other relevant emotions.
- > Gather Insights:
- Collaborate with your team or invite relevant stakeholders to join the MURAL board.
- ➤ Encourage participants to add their insights, comments, and observations to each quadrant.
- Analysis and Synthesis:
- ➤ After collecting insights, analyze the information to identify common themes, concerns, and opportunities.
- ➤ Use MURAL's features like grouping, voting, and tagging to organize and prioritize the most important insights.
- Create Action Items:
- ➤ Based on the insights and trends identified, create action items or recommendations for addressing the future of engineering in 2024.
- ➤ You can use MURAL's task management features to assign responsibilities and track progress.
- Presentation and Sharing:
- ➤ Share the completed empathy map canvas with your team or stakeholders.
- Use MURAL's presentation mode to communicate the findings and action items effectively.
- Iterate and Update:
- ➤ As the year progresses and new information becomes available, revisit the MURAL board to update your empathy map and adjust your strategy accordingly.
- ➤ By using MURAL for this exercise, you can visually represent and collaborate on the future of engineering, making it easier to

understand and address the emerging trends and challenges in the field.

2.3 Brainstorming and Ideation Phase





3.ADVANTAGES & DISADVANTAGES

Advantages:

- ➤ Advanced Materials and Nanotechnology: Engineers are working with cutting-edge materials and nanotechnology, which can lead to the development of stronger, lighter, and more durable products. This can revolutionize industries like aerospace, construction, and healthcare.
- Automation and Artificial Intelligence: The integration of AI and automation in engineering processes can significantly increase efficiency and productivity. Engineers can use AI for design optimization, predictive maintenance, and real-time data analysis, reducing human error and costs.
- Sustainable Engineering: The growing focus on sustainability and environmental responsibility is a significant advantage. Engineers are developing innovative solutions to address climate change, reduce waste, and enhance energy efficiency.

- ➤ 3D Printing and Additive Manufacturing: The use of 3D printing and additive manufacturing techniques allows for rapid prototyping and customized, complex product design. This can save time and resources in the production process.
- ➤ Collaborative Tools and Remote Work: Improved collaboration tools and remote work capabilities enable engineers to work across geographical boundaries, fostering global collaboration and innovation.
- ➤ Renewable Energy and Green Technologies: Engineers are driving the development of renewable energy sources and green technologies, which can help reduce our reliance on fossil fuels and mitigate climate change.
- ➤ Infrastructure Innovation: Advances in engineering are leading to the creation of smart cities, intelligent transportation systems, and other innovative infrastructure projects that can improve the quality of life for people.

Disadvantages:

- ➤ Technological Obsolescence: The rapid pace of technological advancements can lead to the obsolescence of existing engineering skills and knowledge. Engineers need to constantly update their expertise.
- ➤ Privacy and Security Concerns: As more engineering systems become interconnected and dependent on data, there are increased concerns about privacy and cybersecurity. Unauthorized access or data breaches can have significant consequences.

- ➤ Environmental Impact: While engineering solutions are often aimed at solving environmental issues, some technologies can also have unintended negative consequences, such as e-waste and increased energy consumption.
- ➤ Dependency on AI: While AI is a powerful tool, there is a risk of over-dependence, where engineers may neglect critical thinking and creativity, relying solely on AI algorithms for decision-making.
- ➤ Ethical and Social Challenges: Engineers need to grapple with the ethical implications of their work, such as the potential for job displacement due to automation and the use of AI in decision-making, raising concerns about fairness and bias.
- ➤ Resource Constraints: Many innovative engineering projects require substantial resources, both in terms of funding and raw materials. This can limit the feasibility of certain projects and technologies.
- ➤ Regulatory and Legal Complexities: Engineers may face challenges in navigating complex regulatory frameworks and legal issues when developing and implementing new technologies, which can slow down innovation.
- ➤ In summary, the future of engineering in 2024 is filled with opportunities for advancement and innovation, but it also presents challenges that need to be addressed. Engineers must stay adaptable, mindful of the ethical implications of their work, and continuously upgrade their skills to keep up with the fast-paced changes in the field.

4.APPLICATIONS

The future of engineering in 2024 promises to be shaped by a variety of technological advancements and trends. Here are some key applications and trends to watch:

- ➤ Sustainable Engineering: Engineers will continue to play a critical role in addressing environmental challenges. Expect to see more sustainable engineering practices, with a focus on renewable energy, green infrastructure, and sustainable materials to combat climate change.
- ➤ Smart Cities and Infrastructure: The development of smart cities will continue, with engineers working on projects that use IoT, sensors, and data analytics to improve urban planning, transportation, energy efficiency, and public services.
- ➤ Artificial Intelligence (AI) and Machine Learning: AI and machine learning will be integrated into engineering processes, enabling predictive maintenance, optimizing designs, and automating routine tasks. Engineers will leverage AI to make faster and more data-driven decisions.
- ➤ Robotics and Automation: Engineering will see more automation through robotics, especially in manufacturing and logistics. These technologies will enhance efficiency, accuracy, and safety in various industries.
- ➤ 3D Printing and Additive Manufacturing: The use of 3D printing will continue to grow in various applications, from rapid prototyping to customized manufacturing of complex parts. It will revolutionize the way products are designed and produced.
- ➤ Biotechnology and Bioengineering: Engineering will intersect with the life sciences in fields like biotechnology, bioinformatics, and

bioengineering. This will lead to breakthroughs in healthcare, pharmaceuticals, and biomanufacturing.

- ➤ Renewable Energy and Energy Storage: Engineers will focus on improving renewable energy technologies, such as solar, wind, and geothermal power, while developing better energy storage solutions. This is essential for transitioning to a sustainable energy future.
- ➤ Cybersecurity in Engineering: With the increasing integration of digital technology in engineering processes, there will be a growing need for cybersecurity measures to protect critical infrastructure and data from cyber threats.
- ➤ Space Exploration and Aerospace Engineering: The future of space exploration will continue to rely on engineering innovations. Private space companies and government agencies will push the boundaries of aerospace technology, exploring new frontiers and commercial space travel.
- ➤ Nanotechnology: Engineers will continue to work on the manipulation and application of materials at the nanoscale, leading to advancements in medicine, electronics, and materials science.
- ➤ 5G and Beyond: The rollout of 5G networks and the development of 6G will influence the way engineers design and implement communication systems, enabling faster and more reliable connectivity for various applications.
- ➤ Virtual and Augmented Reality: VR and AR technologies will play an increasing role in engineering for design, training, and maintenance. They will be used for immersive simulations, enhancing collaboration, and reducing design and prototyping costs.

- ➤ Blockchain in Engineering: Blockchain technology will be employed in engineering for secure data management, supply chain tracking, and the verification of critical information in various industries.
- ➤ Environmental Engineering: With a growing emphasis on environmental conservation, engineers will develop technologies and solutions to manage waste, protect ecosystems, and ensure access to clean water.
- ➤ Human-Machine Collaboration: Engineering will see greater collaboration between humans and machines, with engineers developing technologies that enhance human capabilities and augment decision-making processes.
- ➤ These trends represent the evolving landscape of engineering in 2024 and beyond. Engineers will need to adapt, acquire new skills, and embrace emerging technologies to drive innovation and address the world's complex challenges.

5.CONCLUSION

The future of engineering in 2024 promises to be an exciting and transformative period marked by several key trends and advancements. As we conclude this exploration into the reality and potential of the engineering field, it is evident that the landscape is evolving at an unprecedented pace. Here are some key takeaways and conclusions for the future of engineering in 2024:

- ➤ Digital Transformation and Automation: Engineering is undergoing a profound digital transformation. The integration of technologies like AI, IoT, and big data is streamlining processes, improving efficiency, and driving automation in various engineering sectors. Engineers will need to adapt and acquire new digital skills to remain relevant.
- Sustainable Engineering: With growing environmental concerns, sustainable engineering practices are becoming a central focus. Engineers are developing innovative solutions to address climate change, pollution, and resource scarcity. The demand for ecofriendly and energy-efficient designs is increasing.
- ➤ AI and Machine Learning: The application of AI and machine learning in engineering is expanding rapidly. These technologies are enhancing predictive maintenance, design optimization, and decision-making across industries. Engineers will increasingly work alongside AI systems to solve complex problems.
- Additive Manufacturing: 3D printing and additive manufacturing are revolutionizing product development, enabling rapid prototyping, customization, and cost-effective production. This technology is set to reshape traditional manufacturing methods.
- ➤ Collaborative Engineering: Cross-disciplinary collaboration is becoming more crucial. Engineers are working in tandem with

- experts from various fields to tackle multifaceted challenges, such as smart cities, healthcare, and transportation.
- ➤ Renewable Energy: The drive for cleaner energy sources continues to shape engineering. Advancements in renewable energy technologies like solar, wind, and hydrogen are transforming the energy sector, aiming to reduce carbon footprints.
- ➤ Cybersecurity: As more systems become interconnected, the need for robust cybersecurity in engineering is paramount. Protecting critical infrastructure and sensitive data from cyber threats is a persistent challenge.
- ➤ Space Exploration and Colonization: The aerospace and space engineering sector is experiencing a resurgence. Projects related to space exploration, satellite deployment, and the potential for space colonization are driving exciting developments in engineering.
- ➤ Biotechnology and Healthcare Engineering: Engineering is playing a pivotal role in the healthcare and biotechnology sectors. Innovations in medical devices, drug development, and telemedicine are improving healthcare outcomes.
- ➤ Global Challenges: Engineers are at the forefront of addressing global challenges, including pandemics, climate change, and sustainable development. Their expertise is crucial in finding solutions to these complex issues.
- ➤ In conclusion, the future of engineering in 2024 is marked by an intersection of technological advancements, environmental responsibility, and the need for interdisciplinary collaboration. Engineers will play a pivotal role in shaping a more sustainable, interconnected, and innovative world. To thrive in this dynamic landscape, engineers must continuously adapt, upskill, and

embrace emerging technologies while upholding ethical and environmental considerations. The future of engineering holds immense promise, and the field is poised to be a driving force in addressing the most pressing challenges of our time.

6.FUTURE SCOPE

I don't have access to information beyond my last knowledge update in January 2022, so I can't provide specific trends for 2024. However, I can discuss some general trends and areas of interest in the field of engineering that were likely to continue evolving beyond 2022. Keep in mind that the actual trends in 2024 may vary. Here are some aspects to consider:

- Sustainable Engineering: Sustainability will continue to be a dominant theme. Engineers will focus on developing environmentally friendly solutions, including renewable energy systems, green infrastructure, and sustainable transportation.
- ➤ Digital Transformation: The integration of digital technologies such as IoT (Internet of Things), AI (Artificial Intelligence), and big data analytics will become more prevalent in engineering. This will result in smarter and more efficient systems, from smart cities to advanced manufacturing processes.
- ➤ 3D Printing and Additive Manufacturing: These technologies will continue to revolutionize the manufacturing industry by enabling rapid prototyping, customization, and the production of complex structures with minimal waste.
- Autonomous Systems: Engineering will see significant growth in autonomous vehicles, drones, and robotic systems. These technologies have the potential to transform transportation, logistics, and various industrial processes.

- ➤ Biotechnology and Bioengineering: Advances in biotechnology and bioengineering will open up new possibilities, including the development of biofuels, biocompatible materials, and medical breakthroughs.
- ➤ Space Exploration and Aerospace Engineering: With the increasing interest in space exploration, engineers will play a crucial role in designing spacecraft, habitats, and technologies for interplanetary travel and lunar colonization.

Cybersecurity and Ethical Engineering: As our reliance on technology grows, engineers will face the challenge of ensuring the security and ethical use of systems. This includes addressing cybersecurity threats and ethical considerations in Al and automation.

- ➤ Energy Efficiency and Renewable Energy: Engineering will continue to focus on improving energy efficiency in buildings, industries, and transportation. Renewable energy sources, such as solar and wind power, will play a larger role in the energy mix.
- Nanotechnology and Materials Engineering: Innovations in nanotechnology and materials science will lead to the development of stronger, lighter, and more durable materials with a wide range of applications.
- ➤ Healthcare Engineering: The healthcare industry will see the integration of engineering solutions for medical devices, telemedicine, and healthcare infrastructure, improving patient care and accessibility.
- ➤ Infrastructure Resilience: Engineers will work on designing and

retrofitting infrastructure to withstand the challenges posed by climate change, such as extreme weather events and rising sea levels.

Collaborative and Interdisciplinary Approaches: Multidisciplinary collaboration will become increasingly important, with engineers working alongside experts in fields like biology, environmental science, and data science to address complex global challenges.

Remember that the actual trends and advancements in engineering in 2024 may differ from these predictions, but these areas represent some of the overarching themes that have been shaping the future of engineering. It's essential for engineers to stay updated with the latest developments and adapt to the changing landscape of their respective fields.

7.PROJECT SCOPE AND OBJECTIVES

Project Scope:

The project "Reality Future of Engineering: The Future of Engineering - Trends to Watch in 2024" aims to provide an in-depth analysis of the emerging trends and developments in the field of engineering, with a specific focus on the anticipated trends for the year 2024. The project will encompass a comprehensive exploration of various engineering disciplines, including but not limited to civil, mechanical, electrical, computer, and biomedical engineering.

Project Objectives:

➤ Trend Analysis: Identify, document, and analyze the most significant trends and technological advancements in the field of engineering for the year 2024. This includes innovations, emerging technologies, and evolving methodologies.

- ➤ Industry and Market Insights: Provide insights into the impact of these trends on the engineering industry and markets. Assess how these developments are changing the competitive landscape, market dynamics, and the demand for engineering services.
- ➤ Challenges and Opportunities: Identify challenges and opportunities arising from the identified trends. Determine how these trends may create new opportunities or pose challenges for engineers and related industries.
- ➤ **Technological Convergence:** Examine areas of technological convergence where multiple engineering disciplines intersect. Explore how multidisciplinary collaboration can lead to breakthrough innovations.
- ➤ Sustainability and Environmental Impact: Assess the role of engineering in addressing sustainability and environmental concerns. Examine trends related to sustainable engineering practices and their impact on the environment.
- ➤ Ethical and Social Implications: Investigate the ethical and social implications of engineering trends, including considerations related to privacy, security, and the responsible use of technology.
- ➤ Education and Skill Development: Explore the evolving educational needs and skill requirements for engineers in light of these emerging trends. Consider how academic institutions and training programs are adapting to prepare future engineers.
- ➤ Case Studies: Provide real-world case studies or examples that illustrate the practical application of these trends in various engineering projects or industries.
- > Global Perspective: Offer a global perspective by examining how

these trends are influencing engineering practices and industries on an international scale.

- ➤ **Recommendations:** Summarize key takeaways and offer recommendations for engineering professionals, businesses, policymakers, and educational institutions on how to navigate and leverage the identified trends for success in 2024 and beyond.
- Future Predictions: Make informed predictions about the trajectory of these trends beyond 2024 and their potential long-term impact on the field of engineering.
- ➤ Communication and Dissemination: Develop a comprehensive report or presentation that effectively communicates the findings and insights to a broad audience, including engineers, industry professionals, policymakers, and the general public.
- ➤ Engagement: Foster engagement and discussion within the engineering community through webinars, seminars, or conferences to facilitate knowledge sharing and collaboration.
- ➤ Monitoring and Updates: Consider establishing a framework for ongoing monitoring of engineering trends to provide regular updates beyond the scope of this project.

The project aims to contribute valuable insights into the everevolving landscape of engineering and its impact on society, technology, and the environment. By focusing on trends in 2024 and beyond, it will provide a forward-looking perspective for stakeholders in the engineering ecosystem.

8.APPENDIX

An appendix is usually used to include additional information that is relevant to the main body of the report but would be disruptive if included in the main text. Here are some common items you might include in an appendix for a report on "The Future of Engineering: Trends to Watch in 2024":

- ➤ Data and Statistics: If you have a lot of data or statistical information that supports your findings, you can include tables, charts, or graphs in the appendix. Make sure to label them clearly.
- ➤ **Technical Details:** Any detailed technical information that might be of interest to a specific audience can be placed in the appendix. This could include technical specifications, equations, or algorithms.
- ➤ Survey Questionnaires: If your report is based on surveys or questionnaires, you can include the full survey questions and responses in the appendix.
- ➤ Case Studies: If you've included case studies in your report, you can provide more extensive information about each case in the appendix, including detailed descriptions, photographs, or additional data.
- ➤ **Supporting Documents:** Any documents that are referenced in your report, such as patents, legal agreements, or contracts, can be included in the appendix.
- Additional Reading: If you want to suggest further reading or resources for those interested in the topic, you can provide a list of recommended books, articles, websites, or other sources.
 - ➤ **Glossary:** If you've used technical terms or acronyms that may not be familiar to all readers, you can include a glossary of terms

Appendix

➤ Permissions and Copyright Information: If you've used copyrighted material, include permissions or copyright information in the appendix to show that you have the right to use them.

Remember to number and label each item in the appendix for easy reference within the main document. Additionally, provide a brief explanation or introduction to the content of the appendix at the beginning of the section. The purpose of the appendix is to make your report more informative and comprehensive without cluttering the main text.

GitHub & Project Video Demo Link

➤ Video Link:

https://drive.google.com/file/d/1SINxnNylpAFURIL NJ-c-WR2GlyRNfFL/view?usp=sharing

➤ GithubLink:

https://drive.google.com/file/d/1SINxnNylpAFURI L_NJ-c-WR2GlyRNfFL/vie...