SUNAIN FATIMA 0312-6476 617 Essay AI Can Help to Build a MORE Resilient and Climate - Secure Future Outline Introduction 1-1.1. Brief Overview of Climate change and its Impact. 1.2. AI as a Powerful Toop. For addressing climate Related plz write down thesis statement 1.3. Thesis statement, HOW AI Can be Helper for Geoting 2. a Resilient and Climate. Secure Future 2.1_ Predictive Modeling and climates

:5.5 Forecasting helping in mitigation of Climate change. . IBM's Green Horizon Project. 2.2 Energy Optimization Using AT . Case study of Deep Mind. a subsidary of Alphabet. 2.3. Use of AI in Agriculture for Sustainable Practices Promotion . John Deve and AI research collaboration 2.4. AI Usage For Forsest Conservation and Deparestion Monitoring . Real-time Monitoring By Global Forest Watch Using AI techniques. 2.5 Role of AI in Enhancing Circular Economy and goolid Waste Management. · cose facty of Caubon. Clear solution using AI For Clrbon Capture and sequestration

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Artificial intelligence has potential to accelorate transition to clean energy, improve climate resilience, and ensure a secure future. By Optimizing everything from energy system to agriculture, Artificial Pritelligence can help us mitigate and adapt to climate Change. (GINA Maccarthy; former EPA Administrator) Climate change is one of the biggest challenges of 21st rentury. climate change is the long term change in the overage weather patterns that define earth's regional, global climate. It includes average increase in earth's temperature as well as heavy rainfalls, frequent floods, easthquakes and toonadoes. These has been an increase in the intensity and Frequency of natural disasters It poses a threat to coastal population

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:615 as well as marine life- Climate change has intensified the economic buden on countries also. It has become important to puddies. The issue and take important steps to deal with its hazandous effects. Artificial intelligence can be of significant why while panibe cat be ear be ple diversity your expression be helpfue for creating a resilient and climate. secure future by using predictive modelling and helping in climate fore casting. It can be beneficial in ochieving energy optimiscition (lse of AI in agriculture will promote sustainable practices. It can help in forest conservation and preventing deforestation by providing redultime monitoring Financial and ethical challenges must be considered, while implementing AI. Thus, AI through its different techniques can be of great help in mitigating and building resiliente against climate changes, but.

:5,5 challenges in implementing AI must be considered thoroughly. Firstly, artificial intelligence models such as machine learning algorithms; Valuable insights and patterns can be extracted from the historical data. These insights enable accurate predictions about future outcomes so, artifical intelligence can be of great help in predictive modelling and climate forecasting, aiding in mitigation of climate change. IBM's Green Hovizon Project is based on predictive modeling and helps in the provionment protection by reducing the traffic emissions This project is the being replicated by other couptries like China to deal with the monsta Thus, climate change mitigation can be achieved using astifical intelligence models.

-: 8.5 In addition, artifical intelligence tan be utilised too energy optimization using machina learning models, data collection and real-time optimization Deepmind - a susidary of Alphabet-appoied machine Jearning augorithm. to reduce energy usage while maintaining performance. Deep mind reported that they achieved a reduction of up to Footy percent in the energy used for cooling, using his models. This not only lowered the Operational casts but also contributed to sustainability efforts by reducing the carbon footprint of the data centers. The techniques developed can be applied to other industries where energy consumption is a concern such as manufacturing, transportation and building management. So, AI models can be used to reduce. the carbon emissions by optimizing energy production. In the words of

Sundar Pichai, Ceo google: "As can be a powerful tool For addressing climate change. 9t can help new solutions for sustaingible energy, reduce waster and create resilient infrastructure contributing to a more secure and sustainable future." 'Moreover, Lisage of AI models in agriculture sector promote sustaincible practices by reducing water consumption, assessing soil health, coop mapping, Fore casting crop yields and identifying major risks. John Deere, a leading manufactures of agricultural machinery, has been actively collaborating with AI research to enhance its products and services. The company is using AI to provide formers with actionable insights to maximize yields, minimize resource use, develop autonomous

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-: 5,5 machines, and make informed decision about planting, fertilization, and harvesting. Hense, AI models usage in agricultural practices holds better prospects for future. Furthermore, artifical interligence can play are significant role in preventing deforestation and promoting, forest conservation by providing seal-time monitoring. The integration of AI with satellite imaging enhances the detection of subtle changes in Forest conopy, which might be overlooked by the human eye, and enables the identification of deforestation patens over time. Global Forest Watch uses ist) satellite imagery combined with AI to track dependentation in realtime. The AI-powered Mack provides accurate data on forest cover loss and helps governments, NOOs and private companies to protect forests.

:どっち The sole of AI in environment protection can be demonstrated by the following woods of the Formas executive secretary of UNFace Choistiana Figueres: "Antifical intelligence, when harnessed responsibly, houds immense promise to help address climate change. It can empower governmentsi inclustries and communities to anticipate and respond to environmental risks beating a more resilient global system? Adding on, artificial intelligence through predictive analytics, route optimization, waste bin monitoring Scanning for dangerous items and helping manufactures, design better packaging and products, is playing a significant ale in waste management. It helps to option optimizing caubon capture process

:0,5 and in its sequestration. Carbon Elear Solutions - On American company-lises AI to optimize its Carbon capture process in realtime, making it more efficient. By capturing Carbon dioxide emissions From the industrial plants and converting them into useful products such as chemicals or fuels. This system significantly reduces the amount of carbon dioxide released into the atmosphere. The captured carbon dioxide is used to create valuable products which promotes circular economy. The company has expanded the application of this AI-powered technology to multiple inclustries, helping reduce global industrial emissions. The USE of OI for carbon capture and sequestration needs to be Strengthened for a climate-secure future. What is more crucial is the

CA role of AI in Forming sound clamate policies. Using artificial intelligence, accurate data can be processed and more efficient predictive mode ean be created. These predictive models can help in better climate forecasting, better visk cloudy sis and spund policies can be formilated The incorporation of technology, innovation and leadership is the need of hour for the betterment of the planet. As Banki _ Moon, (Former UN Scretcing General, emphasized The future of our planet depends on the ability to combine technology, innovation and leadership. AI can drive solutions for a more resilient and sustainable climate by improving data analysis and Fostering environmental action. Artifical intelligence technology

:215: can also be significant in the conservation & biodiversity and maintaining of the ecosystem. Biodiveosity Loss is one of the most serious impacts of climate change and pose a serious threat to the (maintena) ecosystem. The integration of AI with saltedlike imagery improves the efficiency of monitoring systems to detect illegae and unregulated hunting activities. Such an attempt has been done by Ocean Mind- ci non-profit organization uses As to detect illegal unreported and unsequented fishing by analyzing the satellite data and maxime traffics. AI helpsinidentifying vessels that are Operating illegally which contributes to Fover-fishing and des radation of ecosystem. It is essential to realise the global level impact of Using AI for the maintenance of ecosystem Elaborating further, AI models

san be used to plan urban cities with better resilience against the intensified and more frequent natura calamities. Smart gride can realise of solar power generation system through advanced sensor, communication and data analysis technology. In this way, smart grids cop optimise energy consumption and must be envolled in constructions of the buildings- Predictive analytics can also identify high-rick areas and times, allowing for targeted interventions to prevent accidents. It can also help in reducing Congestion leading to lower vehicle emissions improved air quality and reduced goes house gases emission. Beijing Libban City Model is based on usage of AI models to optimise energy consumption reduce vehicular emissions and construct resilient - buildings against

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3.3: natural discusters Although, AI models hold multi-faceted prospects regarding mitigation and creation of residience against climate change, some challonges must be thoroughly considered which one might fack clusing implementation of these AS models. Firstly, it is not easy to implement these models considering the financial restrains. Secondly, artificial interligence technology pase a serious toreat to data privacy and increases the risks For data leakage. Thirdly, foka of implementing artificial intelligence into multiple sectors is one thing, but it is not backed up by broad. spectours releasch end practical implementation There is a cline need of strengthened collaboration between AI developers and climate scientists, to bring the dream into reality, hastly, global

:とって North and Global South should also join hand in (adopting) AI techniques in the mitigation of the climate change. In short, clotificial intelligence is the present and future. It is a vay of hope. When havnessed properly artificial intelligence holds brand. spectoum advantages in the fight against climate change. Artificial intelligence techniques can play the promising role in the conservation of biodiversity and preventing the degradation of ecosystem_ As can help in better policy making segnoding climate by providing, analysing thousand-folds data and accusate predictive modelling. AI will improve circular economy, reduce caubon foot. prints and help in solid waste management. Its prospect in Forest Conservation

-: 5.5 can not be neglected too. For implementing AI techniques, it is protinent to counter the challenges in its implementation. Issues of data breech, Financial constraints and lack of collaboration must be countered in the nick of time to get maximum advantage of artificial intelligence to building residence and mitigating climate change.



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