

## **Seminar Topic Name: AI in Agriculture**

### **Content to be covered**

- 1) Introduction
- 2) Different applications of AI in agriculture (5-10 applications)
- 3) Impact of AI in agriculture
- 4) Future Scope
- 5) Conclusion

Student has to prepare a report and a presentation based upon the above-mentioned points and has to present a demonstration on crop maturity (Maturation is indicative of the crop being ready for harvest)

### **Rubrics**

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### **Important Points for the Report Preparations**

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## **Seminar Topic Name: AI in Agriculture**

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- 5) Conclusion

Student has to prepare a report and a presentation based upon the above-mentioned points and has to present a demonstration on Livestock health monitoring (The main aspect of health monitoring system is to check continuously the health of individual of cattle, easily diagnosis and treatment of sick cattle as early as possible)

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Student has to prepare a report and a presentation based upon the above-mentioned points and has to present a demonstration on Plant disease detection (Plant disease detection is the process of identifying diseases that affect crops and plants, so that they can be treated or managed before they cause significant damage)

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## **Seminar Topic Name: AI in Healthcare**

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- 1) Introduction
- 2) Different applications of AI in healthcare (5-10 applications)
- 3) Impact of AI in healthcare
- 4) Future Scope
- 5) Conclusion

Student has to prepare a report and a presentation based upon the above-mentioned points and has to present a demonstration on Rule based expert systems (The role of rule-based expert systems in healthcare is to assist healthcare professionals in making clinical decisions by analyzing patient data and providing recommendations based on a predefined set of rules and decision-making algorithms. These systems are designed to improve the accuracy, efficiency, and standardization of healthcare decisions)

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## **Seminar Topic Name: AI in healthcare**

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- 2) Different applications of AI in healthcare (5-10 applications)
- 3) Impact of AI in healthcare
- 4) Future Scope
- 5) Conclusion

Student has to prepare a report and a presentation based upon the above-mentioned points and has to present a demonstration on Diagnosis and treatment applications (AI plays an important role in the diagnosis and treatment of diseases, for e.g., Analyzing medical images to identify patterns and anomalies that may indicate the presence of a disease, Predicting the risk of developing a disease and recommending preventive measures, Speeding up drug discovery and development through data analysis, Providing personalized medicine by creating individualized treatment plans)

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## **Seminar Topic Name: AI in finance**

### **Content to be covered**

- 1) Introduction
- 2) Different applications of AI in Finance (5-10 applications)
- 3) Impact of AI in finance
- 4) Future Scope
- 5) Conclusion

Student has to prepare a report and a presentation based upon the above-mentioned points and has to present a demonstration on Personalized Banking (AI plays an important role in personalized banking by: Providing quick and personalized customer support through AI-powered chatbots, detecting fraud through data analysis, assessing credit risk and determining loan eligibility through data analysis, creating targeted marketing campaigns through data analysis, providing personalized investment recommendations through data analysis)

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### **Content to be covered**

- 1) Introduction
- 2) Different applications of AI in Finance (5-10 applications)
- 3) Impact of AI in finance
- 4) Future Scope
- 5) Conclusion

Student has to prepare a report and a presentation based upon the above-mentioned points and has to present a demonstration on Fraud Detection (In finance, AI plays a crucial role in fraud detection by: Analyzing large amounts of data to identify unusual patterns of behavior that may indicate fraud, monitoring transactions in real-time to detect and prevent fraudulent activity, providing alerts and notifications to relevant parties in the event of suspected fraud, continuously learning and adapting to new fraud patterns to improve accuracy and efficiency.)

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## **Seminar Topic Name: AI in Biotechnology**

### **Content to be covered**

- 1) Introduction
- 2) Different applications of AI in Biotechnology (5-10 applications)
- 3) Impact of AI in Biotechnology
- 4) Future Scope
- 5) Conclusion

Student has to prepare a report and a presentation based upon the above-mentioned points and has to present a demonstration on any application of AI in Biotechnology (In biotechnology, AI plays a critical role by: Analyzing large amounts of biological data to identify patterns and correlations that may inform the development of new treatments and therapies, Improving the accuracy and efficiency of drug discovery and development through data analysis, Improving the accuracy of disease diagnosis by analyzing medical images and patient data. AI has the potential to transform the biotechnology industry by improving health outcomes, increasing efficiency, and reducing costs)

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## **Seminar Topic Name: AI in game playing**

### **Content to be covered**

- 1) Introduction
- 2) Different applications of AI in game playing (5-10 applications)
- 3) Impact of AI in game playing
- 4) Future Scope
- 5) Conclusion

Student has to prepare a report and a presentation based upon the above-mentioned points and has to present a demonstration on any application of AI in game playing (Creating game-playing AI agents that can compete against humans or other AI agents, Improving the realism and complexity of game simulations by incorporating AI-powered behaviors and decision-making, enhancing the player experience through personalized and adaptive game-play, helping game designers and developers to create more challenging and engaging games.)

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## **Seminar Topic Name: AI in Manufacturing**

### **Content to be covered**

- 1) Introduction
- 2) Different applications of AI in manufacturing (5-10 applications)
- 3) Impact of AI in manufacturing
- 4) Future Scope
- 5) Conclusion

Student has to prepare a report and a presentation based upon the above-mentioned points and has to present a demonstration on any application of AI in manufacturing (Improving operational efficiency through predictive maintenance and real-time monitoring, Increasing production quality by detecting and preventing defects in real-time, Reducing waste by optimizing production processes and reducing downtime, Enhancing product design through advanced simulations and modeling, Streamlining supply chain management through predictive demand forecasting)

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## **Seminar Topic Name: AI in Education**

### **Content to be covered**

- 1) Introduction
- 2) Different applications of AI in education (5-10 applications)
- 3) Impact of AI in education
- 4) Future Scope
- 5) Conclusion

Student has to prepare a report and a presentation based upon the above-mentioned points and has to present a demonstration on any application of AI in education (Providing personalized learning experiences through adaptive learning algorithms, Improving student outcomes by analyzing student data to identify strengths and weaknesses, Enhancing teacher effectiveness by providing insights and recommendations on student performance, Automating routine tasks such as grading, allowing teachers to focus on more important tasks, Improving accessibility to education through virtual and augmented reality technologies)

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## **Seminar Topic Name: AI in pharmaceutical sciences**

### **Content to be covered**

- 1) Introduction
- 2) Different applications of AI in pharmaceutical sciences (5-10 applications)
- 3) Impact of AI in pharmaceutical sciences
- 4) Future Scope
- 5) Conclusion

Student has to prepare a report and a presentation based upon the above-mentioned points and has to present a demonstration on any application of AI in pharmaceutical sciences (Improving drug discovery and development through data analysis and predictive modeling, Optimizing the drug development process by predicting the efficacy and toxicity of potential drugs, Personalizing medicine through data analysis and predictive modeling, Improving the accuracy of disease diagnosis by analyzing medical images and patient data, Streamlining clinical trials by analyzing patient data and predicting outcomes)

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## **Seminar Topic Name: AI in Banking**

### **Content to be covered**

- 1) Introduction
- 2) Different applications of AI in Banking (5-10 applications)
- 3) Impact of AI in Banking
- 4) Future Scope
- 5) Conclusion

Student has to prepare a report and a presentation based upon the above-mentioned points and has to present a demonstration on any application of AI in Banking (Providing quick and personalized customer support through AI-powered chatbots, detecting fraud through data analysis, assessing credit risk and determining loan eligibility through data analysis, creating targeted marketing campaigns through data analysis, Providing personalized investment recommendations through data analysis)

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## **Seminar Topic Name: AI in Aerospace**

### **Content to be covered**

- 1) Introduction
- 2) Different applications of AI in Aerospace (5-10 applications)
- 3) Impact of AI in Aerospace
- 4) Future Scope
- 5) Conclusion

Student has to prepare a report and a presentation based upon the above-mentioned points and has to present a demonstration on any application of AI in Aerospace (AI plays a crucial role in aerospace: Improving operational efficiency and reducing costs through predictive maintenance and real-time monitoring, enhancing flight safety through real-time monitoring and decision-making systems, Improving navigation and control systems through advanced algorithms and sensors. Streamlining the design process through simulations and modeling, optimizing flight paths and reducing fuel consumption through advanced route planning)

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## **Seminar Topic Name: AI in Defense**

### **Content to be covered**

- 1) Introduction
- 2) Different applications of AI in Defense (5-10 applications)
- 3) Impact of AI in Defense
- 4) Future Scope
- 5) Conclusion

Student has to prepare a report and a presentation based upon the above-mentioned points and has to present a demonstration on any application of AI in Defense (Improving situational awareness through real-time monitoring and data analysis, Enhancing decision-making through data analysis and predictive modeling, Improving the accuracy and efficiency of weapons systems through advanced algorithms and automation, Streamlining logistical and supply chain operations through data analysis and predictive modeling, Enhancing the protection of military personnel and assets through predictive maintenance and real-time monitoring)

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## **Seminar Topic Name: AI in Business**

### **Content to be covered**

- 1) Introduction
- 2) Different applications of AI in Business (5-10 applications)
- 3) Impact of AI in Business
- 4) Future Scope
- 5) Conclusion

Student has to prepare a report and a presentation based upon the above-mentioned points and has to present a demonstration E-Commerce (Personalizing the shopping experience through data analysis and recommendation systems, Improving customer service through AI-powered chatbots and voice assistants, Streamlining supply chain management through predictive demand forecasting, Detecting fraud through data analysis, Enhancing product search and discovery through machine learning algorithms)

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- 1) Introduction
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- 5) Conclusion

Student has to prepare a report and a presentation based upon the above-mentioned points and has to present a demonstration Stock Market Prediction (Predicting stock prices through data analysis and machine learning algorithms, Identifying trends and patterns in market data through data analysis, Assisting investors in making informed investment decisions through personalized recommendations, Improving risk management through predictive modeling, Streamlining trading operations through automated trading systems)

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## **Seminar Topic Name: AI in Meteorology and Earth Science**

### **Content to be covered**

- 1) Introduction
- 2) Different applications of AI in Meteorology and Earth Science (5-10 applications)
- 3) Impact of AI in Meteorology and Earth Science
- 4) Future Scope
- 5) Conclusion

Student has to prepare a report and a presentation based upon the above-mentioned points and has to present a demonstration on any application of AI in Meteorology and Earth Science (Improving weather forecasting through advanced algorithms and data analysis, Enhancing our understanding of the Earth's systems through data analysis and predictive modeling, Improving natural disaster response through real-time monitoring and prediction, Assisting with climate change research through data analysis and predictive modeling, Streamlining environmental monitoring and management through data analysis and predictive modeling)

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## **Seminar Topic Name: AI in Smart Homes**

### **Content to be covered**

- 1) Introduction
- 2) Different applications of AI in Smart Homes (5-10 applications)
- 3) Impact of AI in Smart Homes
- 4) Future Scope
- 5) Conclusion

Student has to prepare a report and a presentation based upon the above-mentioned points and has to present a demonstration on any application of AI in Smart Homes (Improving energy efficiency through real-time monitoring and control of heating, cooling, and lighting systems, Enhancing home security through predictive maintenance and real-time monitoring, Improving convenience and comfort through voice-controlled systems and personalized automation, Streamlining household tasks through automation and machine learning algorithms, Providing personalized health and wellness recommendations through data analysis)

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## **Seminar Topic Name: AI in Smart Cities**

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- 1) Introduction
- 2) Different applications of AI in Smart Cities (5-10 applications)
- 3) Impact of AI in Smart Cities
- 4) Future Scope
- 5) Conclusion

Student has to prepare a report and a presentation based upon the above-mentioned points and has to present a demonstration on any application of AI in Smart Cities (Improving traffic management through real-time monitoring and predictive modeling, Enhancing public safety through real-time monitoring and data analysis, Optimizing energy consumption through predictive modeling and real-time monitoring, Improving waste management through real-time monitoring and data analysis, Enhancing sustainability through data analysis and predictive modeling)

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- 2) Different applications of AI in blockchain (5-10 applications)
- 3) Impact of AI in blockchain
- 4) Future Scope
- 5) Conclusion

Student has to prepare a report and a presentation based upon the above-mentioned points and has to present a demonstration on any application of AI in blockchain (Improving the efficiency and security of transactions through data analysis and predictive modeling, Enhancing the accuracy of data management and analysis through machine learning algorithms, Streamlining the process of verifying transactions through smart contracts and decentralized decision-making systems, Improving the speed and scalability of the network through advanced algorithms and optimization techniques, Enhancing privacy and security through encrypted data storage and analysis)

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## **Seminar Topic Name: AI in Astronomy**

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- 1) Introduction
- 2) Different applications of AI in astronomy (5-10 applications)
- 3) Impact of AI in astronomy
- 4) Future Scope
- 5) Conclusion

Student has to prepare a report and a presentation based upon the above-mentioned points and has to present a demonstration on any application of AI in astronomy (Improving the accuracy and speed of data analysis through machine learning algorithms, Enhancing the discovery and classification of celestial objects through image and data analysis, Improving our understanding of the universe through predictive modeling and simulations, Reducing the time and cost of observations through automated telescopes and data processing, Improving our understanding of the formation and evolution of stars and galaxies through data analysis)

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## **Seminar Topic Name: AI in Automobile Industry**

### **Content to be covered**

- 1) Introduction
- 2) Different applications of AI in automobile industry (5-10 applications)
- 3) Impact of AI in automobile industry
- 4) Future Scope
- 5) Conclusion

Student has to prepare a report and a presentation based upon the above-mentioned points and has to present a demonstration on any application of AI in automobile industry (Improving vehicle safety through advanced driver assistance systems (ADAS) and self-driving technology, Enhancing the efficiency and performance of vehicles through predictive maintenance and real-time monitoring, Streamlining the design and development process through simulations and modeling, Reducing emissions and fuel consumption through predictive energy management and optimization)

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