CHALLENGES IN AI

- **Data Dependency:** AI requires large volumes of high-quality data.
- **Generalization:** Ensuring AI models work effectively in diverse real-world scenarios.
- **Energy Consumption:** Training large AI models is resource-intensive and raises sustainability concerns.

ETHICAL CONCERNS: BIAS AND FAIRNESS

- **Bias in AI Systems:** Algorithms can reflect societal biases present in training data.
  - Example: Discriminatory hiring algorithms or unfair loan approvals.
- Addressing fairness is crucial for trust in AI.

ETHICAL CONCERNS: PRIVACY

- AI systems often rely on personal data, raising concerns about misuse and surveillance.
  - Example: Social media platforms using AI to analyze and influence user behavior.

ETHICAL CONCERNS: JOB DISPLACEMENT

- Automation poses risks of job loss, especially in manufacturing, transportation, and customer service.
- Focus is needed on reskilling displaced workers and creating new job opportunities.

AUTONOMY AND ACCOUNTABILITY

- Determining responsibility for AI decisions is challenging.
  - Example: Liability for accidents involving self-driving cars.
- Transparency and accountability are essential for critical applications like healthcare and law enforcement.

GLOBAL RISKS OF AI

- **Weaponization of AI:** Autonomous weapons could destabilize international security.
- **Superintelligence Risks:** AI surpassing human control poses existential threats.

REGULATION AND GOVERNANCE

- Frameworks are being developed to ensure ethical AI use:
  - Transparency in decision-making.
  - Fairness and inclusivity in systems.
  - Accountability for actions and impacts.

CONCLUSION

- AI is a revolutionary technology shaping industries, economies, and society.
- By addressing ethical and technical challenges,AI can create a smarter, more equitable, and sustainable future.

- Thanks for lessening ..

Any questions?