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ITAI 2372 Application Intelligence Application

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Assignment 02

Healthcare and AI

Applications:

- **Preventive Healthcare:** Data-driven preventive measures, lifestyle suggestions.
- **Predictive Analytics:** Early health interventions.
- **Hospital Admin:** Scheduling, maintenance, and data security under HIPAA.
- **Drug Discovery:** Predict release dates and analyze compound interactions.
 - **Companies Mentioned:**
 - **In citro** (AI company in California).
- **Remote Monitoring:** Use wearables for health monitoring, potential for AI-driven timely interventions.

Challenges:

- **Regulatory Hurdles:** Slow approvals.
- **Ethical Concerns:** Loss of human touch in medicine.
- **Investment:** Significant from tech giants like Microsoft, Google, AWS into healthcare AI.
- **Problems:**
 - Risk when tech fails.

- Potential for AI errors.
- High need for infrastructure and maintenance.
- Unequal access to AI benefits.
- Automation concerns.

Agriculture and AI

Applications:

- **Precision Farming:** Optimizes planting, care, and harvest.
 - **Apps:** "Plant Friend" for plant health diagnostics.
- **Disease Detection:** Reduces chemical use through early detection.

Challenges:

- Similar tech dependency risks.
- Better-resourced farms benefit more from AI.
- Potential for harmful AI suggestions.
- Integration with traditional practices.
- Automation in farming labor.