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| **S.No** | **Application Domain** | **Complex Problem Identified** | **Justification** |
| 1. | Healthcare AI | Optimizing AI-driven diagnostics for rare diseases | Rare diseases lack sufficient datasets, making AI predictions challenging |
| 2. | Smart Transportation | Traffic congestion prediction using real-time data and AI | Requires large-scale data processing and accurate forecasting models |
| 3. | **Cybersecurity** | AI-driven threat detection and mitigation in real-time | Cyber threats evolve rapidly, requiring adaptive AI-based security measures |