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| S.No | Application Domain | Complex Problem Identified | Justification |
| 1 | Water Resources Management | Managing water supply, flood control, and wastewater treatment systems to ensure sustainability, reliability, and environmental protection in the face of climate change and population growth. | Water conservation, Cost saving, Long term sustainability |
| 2 | Infrastructure Resilience | Ensuring that infrastructure systems can withstand and recover from natural disasters, climate change impacts, and other disruptions to maintain essential services and protect public safety. | Risk Reduction, Increased safety, Community well being |