**Title of the Project : LEAK DETECTION AND CONTROLS OF LEAK**

**IN WATER SUPPLY NETWORKS**

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**ABSTRACT**

Water loss, increased costs, and less efficient supply are all products of leakage in water supply systems. Detecting and controlling leakage is very important if we are to achieve sustainable water distribution. The most prominent methods for leak detection include acoustic sensing, flow and pressure monitoring, and Internet of Things (IoT) methods. Actions to manipulate leaks include pressure management, automatic shutoff valves, and prompt maintenance of drinking water and wastewater pipes, to help mitigate non-revenue water (NRW). The improvements in artificial intelligence through data analytics have made leak detection much faster and more reliable for ensuring a reliable water supply while assisting in the sustainable management of water resources.