**PROBLEM STATEMENT**

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| What is the problem | The poor quality of water for consumption poses an immediate threat that must be addressed. If consumed, it can lead to many water-borne diseases. Thus, the water quality needs to be analysed and predicted. |
| Need to solve the problem | To prevent onset of water borne bacterial infections to those consuming from the polluted water body such as cholera, typhoid, dysentery, diarrhoea, etc. |
| Who is affected by the problem | People who are living in areas where only polluted water is available. Factories that are contaminating the water with pollutants are a major cause. |
| When does the problem occur | The problem is currently existing all over the world in many areas where people’s source water is polluted. |
| Where does the problem occur | The problem occurs where the water bodies are present |
| What are the boundaries of the problem | Geographic, student segments |