Early prediction for Chronic Kidney Disease Detection: A Progressive Approach To Health Management

Define problem/Problem Understanding:

1. Specify The Business Problem

2. Business Requirement

3. Literature Survey

4. Social Or Business Impact

1.Specify The Business Problem:

- **Chronic Kidney Disease (CKD) is a major medical problem and can be cured if treated in the early stages.**

- **Consequently, attributes of various medical tests are investigated to distinguish which attributes may contain helpful information about the disease.**

- **Chronic Kidney Disease which can help in treatments of peoples who are suffer from this disease.**

- The information says that it helps us to measure the severity of the problem

- The predicted survival of the patient after the illness, the pattern of the disease and work for curing the disease.

2.Business Requirements:

- The business requirements for a machine learning model to predit chronic kidney disease incude the ability to accuratey predict the ckd based on given information

- Minimise the number of false positives and false negatives

- Provide an explanatiion for the model's decision

- To company with regulations and iprove transparency

3.Literature Survey:

- Chronic kidney diseae(CKD)is a significant public health issue,affecting 14% of the global poulation.

- Early detection and management of CKD is crucial to prevent progression to ESRD and improve patient outcomes.

- There have been numberous studies in recent   years aimed at developing accurate and efficient method.

- These studies have employed a variety of techniques, include machine learning,deep learning and artifical nenural networks.

4.Social or Business Impact:

- **On a social level,early detection and prediction of CKD can lead to imporved patient outcomes and quality of life.**

- **By identifying individuals at risk for CKD.**

- **Healthcare providers can intervene early and slow the progression of the disease through lifestyle changes,medication management and other treatements.**

- **This can help prevent the need for dialysis or kidney transplantion.**

- **CKD on the healthcare system by reducing the number of hospitalizations and emergency room visits.**