**ABSTRACT**

**HYPOTHYROID DISEASE PREDICTION**

Thyroid is an interminable and complex infection happened because of unseemly TSH (Thyroid Simulating Hormone) levels or might be brought on by the issues in thyroid organ itself. Hypothyroidism is an auto safe condition where the body makes antibodies that pulverize the thyroid organ. It occurs when body doesn’t produce enough thyroid hormones. Thyroid is responsible for providing energy to nearly every organ in body. It controls functions like how heart beats and how digestive system works. Without the right quantity of thyroid hormones, body’s natural functions begin to slow down. Also called underactive thyroid, hypothyroidism affects women more frequently than men. It commonly affects people over the age of 60, but can begin at any age. For most people, symptoms of the condition progress gradually over many years. It is characterised by symptoms such as weight gain, fatigue, depression, high, irregular menstruation cycle, hair fall, improper functioning of digestive system. Our project aims to detect the Thyroid disease using machine learning technique with Thyroid dataset. The main objective of our project is to use classification algorithms to identify the patients who are suffering from Thyroid disease.

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