

Thyroid Disease Classification Using ML

Define Problem/ Problem Understanding

Specify The Business Problem

Thyroid disease is a general term for a medical condition that keeps your thyroid from making the right amount of hormones. When you have too little thyroid hormone in your body, it can make you feel tired, you might gain weight and you may even be unable to tolerate cold temperatures. Specify The Business Problem

Thyroid disease is very common, with an estimated 20 million people in the United States having some type of thyroid disorder. Thyroid disease is a general term for a medical condition that keeps your thyroid from making the right amount of hormones.

The two main types of thyroid disease are hypothyroidism and hyperthyroidism. When you have too little thyroid hormone in your body, it can make you feel tired, you might gain weight and you may even be unable to tolerate cold temperatures. Both conditions can be caused by other diseases that impact the way the thyroid gland works.

Thyroid disease is very common, with an estimated 20 million people in the United States having some type of thyroid disorder. This condition is an inflammation (swelling) of the thyroid gland. Thyroiditis can lower the amount of hormones your thyroid produces.

*Hashimoto's thyroiditis: A painless disease, Hashimoto's thyroiditis is an autoimmune condition where the body's cells attack and damage the thyroid. This is an inherited condition. Both conditions can be caused by other diseases that impact the way the thyroid gland works.

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*Thyroiditis: This condition is an inflammation (swelling) of the thyroid gland. Thyroiditis can lower the amount of hormones your thyroid produces.

The two types of Thyroid disorders are Hyperthyroidism and Hypothyroidism. When this disorder occurs in the body, they release certain types of hormones into the body which imbalances the body's metabolism. A painless disease, Hashimoto's thyroiditis is an autoimmune condition where the body's cells attack and damage the thyroid. This is an inherited condition.

There are a variety of symptoms you could experience if you have a thyroid disease. Unfortunately, symptoms of a thyroid condition are often very similar to the signs of other medical conditions and stages of life.

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Can thyroid issues cause seizures?

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In most cases, thyroid issues don't cause seizures. However, if you have a very severe cases of hypothyroidism that hasn't been diagnosed or treated, your risk of developing low serum sodium goes up. This could lead to seizures.

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Sometimes, thyroid disease can be difficult to diagnose because the symptoms are easily confused with those of other conditions. You may experience similar symptoms when you are pregnant or aging and you would when developing a thyroid disease. Fortunately, there are tests that can help determine if your symptoms are being caused by a thyroid issue. These tests include:

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Physical exams.

Blood tests.

How is thyroid disease treated?

Imaging tests.

Your healthcare provider's goal is to return your thyroid hormone levels to normal. This can be done in a variety of ways and each specific treatment will depend on the cause of your thyroid condition.

Physical exams.

Are there different types of thyroid removal surgery?

How is thyroid disease treated?

If your healthcare provider determines that your thyroid needs to be removed, there are a couple of ways that can be done. Your thyroid may need to be completely removed or just partially.

Your healthcare provider's goal is to return your thyroid hormone levels to normal. This can be done in a variety of ways and each specific treatment will depend on the cause of your thyroid condition.

This procedure is often called scarless because the incision is under your armpit and out of sight. You may not be a candidate for this type of thyroid removal if you:

Are there different types of thyroid removal surgery?

Are not at a healthy body weight.

If your healthcare provider determines that your thyroid needs to be removed, there are a couple of ways that can be done. Your thyroid may need to be completely removed or just partially.

Have large thyroid nodules.

This procedure is often called scarless because the incision is under your armpit and out of sight. You may not be a candidate for this type of thyroid removal if you:

Have a condition like thyroiditis or Graves's disease.

Are not at a healthy body weight.

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