Model Development Phase Template

Date	15 March 2024
Team ID	SWTID1720014456
Project Title	Thyroid Classification
Maximum Marks	5 Marks

Feature Selection Report Template

In the forthcoming update, each feature will be accompanied by a brief description. Users will indicate whether it's selected or not, providing reasoning for their decision. This process will streamline decision-making and enhance transparency in feature selection.

Feature	Description	Selected (Yes/No)	Reasoning
Age	The age of the patient, typically in years.	Yes	This particular feature plays a major role in predicting the presence of thyroid
Sex	The gender of the patient (e.g., male, female).	Yes	This particular feature plays a major role in predicting the presence of thyroid
on_thyroxine	Indicator of whether the patient is currently on thyroxine medication	Yes	This particular feature plays a major role in predicting the presence of thyroid

query_on_thyroxine	Indicator of whether there is a query about the patient being on thyroxine	Yes	This particular feature plays a major role in predicting the presence of thyroid
on_antithyroid_meds	Indicator of whether the patient is on antithyroid medications	Yes	This particular feature plays a major role in predicting the presence of thyroid
sick	Indicator of whether the patient is currently sick	Yes	This particular feature plays a major role in predicting the presence of thyroid
pregnant	Indicator of whether the patient is pregnant	Yes	This particular feature plays a major role in predicting the presence of thyroid
thyroid_surgery	Indicator of whether the patient has undergone thyroid surgery	Yes	This particular feature plays a major role in predicting the presence of thyroid
I131_treatment	Indicator of whether the patient has received I131 treatment	Yes	This particular feature plays a major role in predicting the presence of thyroid
query_hypothyroid	Indicator of whether there is a query about the	Yes	This particular feature plays a major role in predicting the presence of thyroid

	patient having hypothyroidism		
query_hyp erthyroid	Indicator of whether there is a query about the patient having hyperthyroidism	Yes	This particular feature plays a major role in predicting the presence of thyroid
lithium	Indicator of whether the patient is on lithium medication	Yes	This particular feature plays a major role in predicting the presence of thyroid
goitre	Indicator of whether the patient has a goitre	Yes	This particular feature plays a major role in predicting the presence of thyroid
tumor	Indicator of whether the patient has a thyroid tumor	Yes	This particular feature plays a major role in predicting the presence of thyroid
hypopituita ry	Indicator of whether the patient has hypopituitarism	Yes	This particular feature plays a major role in predicting the presence of thyroid
psych	Indicator of whether the patient has a psychiatric condition	Yes	This particular feature plays a major role in predicting the presence of thyroid

TSH_measured	Indicator of whether TSH (Thyroid Stimulating Hormone) was measured	Yes	This particular feature plays a major role in predicting the presence of thyroid
TSH	The measured level of Thyroid Stimulating Hormone.	Yes	This particular feature plays a major role in predicting the presence of thyroid
T3_measured	Indicator of whether T3 (Triiodothyronine) was measured	Yes	This particular feature plays a major role in predicting the presence of thyroid
T3	The measured level of Triiodothyronine	Yes	This particular feature plays a major role in predicting the presence of thyroid
TT4_measured	Indicator of whether TT4 (Total Thyroxine) was measured	Yes	This particular feature plays a major role in predicting the presence of thyroid
TT4	The measured level of Total Thyroxine.	Yes	This particular feature plays a major role in predicting the presence of thyroid
T4U_measured	Indicator of whether T4U (Thyroxine Uptake) was measured	Yes	This particular feature plays a major role in predicting the presence of thyroid

T4U	The measured level of Thyroxine Uptake.	Yes	This particular feature plays a major role in predicting the presence of thyroid
FTI_measu red	Indicator of whether FTI (Free Thyroxine Index) was measured	Yes	This particular feature plays a major role in predicting the presence of thyroid
FTI	The measured level of Free Thyroxine Index.	Yes	This particular feature plays a major role in predicting the presence of thyroid
TBG_meas ured	Indicator of whether TBG (Thyroxine Binding Globulin) was measured	Yes	This particular feature plays a major role in predicting the presence of thyroid
TBG	The measured level of Thyroxine Binding Globulin.	Yes	This particular feature plays a major role in predicting the presence of thyroid
referral_so urce	The source of the patient's referral (e.g., physician, self-referred).	No	This particular feature doesn't plays a major role in predicting the presence of thyroid and has no effect even removed
target	The classification label indicating the presence or absence of	Yes	This particular feature plays a major role in predicting the presence of thyroid

	thyroid disease (e.g., positive/negative).		
Patient_id	Unique identifier for each patient.	No	This particular feature doesn't plays a major role in predicting the presence of thyroid and has no effect even removed