

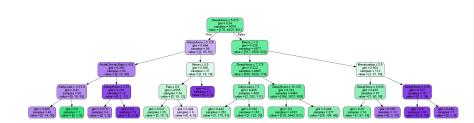
## **Dataset**

SleepHours	Pain	Illness	Menstruation	USG	DailyLoad	AcuteChronicRatio	Fatigue
8.00	1	1	1	1.015	0.0	-1.0	0
9.00	0	0	0	1.015	705.0	1.0	0
9.00	0	0	0	1.015	0.0	-1.0	0
8.50	0	0	0	1.015	0.0	-1.0	0
8.25	0	0	0	1.015	315.0	-1.0	-1

Merge(Wellness, RPE) on (Date, PlayerID)

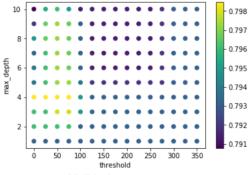
Fatigue  $\rightarrow$ 7:-1, 6:-1, 5:0, 4:0, 3:0, 2:1, 1:1 -1:'Fit', 0:'Average', 1:'Exhausted'

## **Decision Tree**



## Analysis

Split Ratio: Train: Val: Test = 0.60: 0.20: 0.20



Validation accuracy

Best accuracy when threshold = 0 and max\_depth = 4 Accuracy Score = 0.80 (approx.)

## **Predictor Variables**

- SleepHours
- Illness
- AcuteChronicRatio
- DailyLoad
- Menstruation