CLASSIFYING VARIABLE STARS

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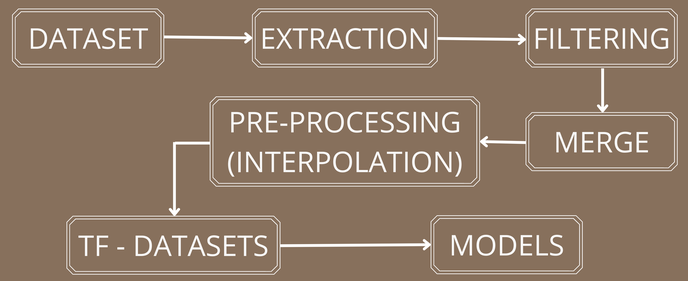
Problem Statement - Classifying periodic variable stars amongst 4 categories:

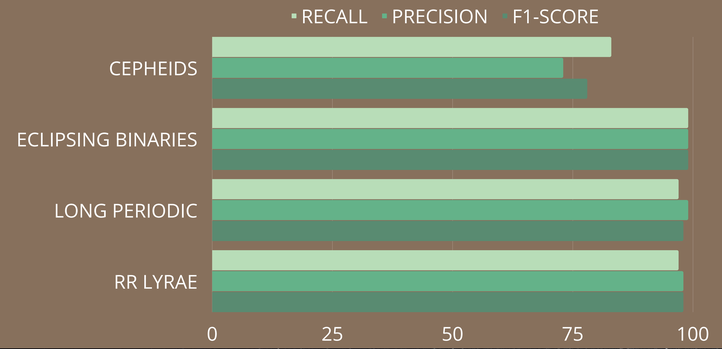
1. RR Lyrae
2. Cepheid
3. Long Period Variable Stars
4. Eclipsing Binary

DATASET:
GAIA DR3
(Extracted using a library : ***Astroquery***)

APPROACH



BEST MODEL



REFERENCE :

1. Research Paper by Prof. Ignacio
2. GAIA DOCUMENTATION
3. Astroquery

Different Models -

1. Base Model - CNN
2. RNNs
3. GRUs
4. LSTMs
5. Multi Layer LSTMs with Interpolation and Time Difference in Input