

Early-time Classification of Astronomical Transients

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In time-domain astronomy, rapid classification of astronomical transients is critical for determining candidates for follow-up observations. With the advent of the Vera Rubin Observatory's Legacy Survey of Space and Time, the backlog of astronomical data will increase by terabytes a night. Machine learning models capable of processing and analyzing large quantities of data can advance the discovery process. Building upon *astronet*, a python package for classifying transients, this research moves towards a model capable of early-time classification of transients using a time-series transformer.

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