EBOP MAVEN

A machine learning model for predicting eclipsing binary light curve fitting parameters

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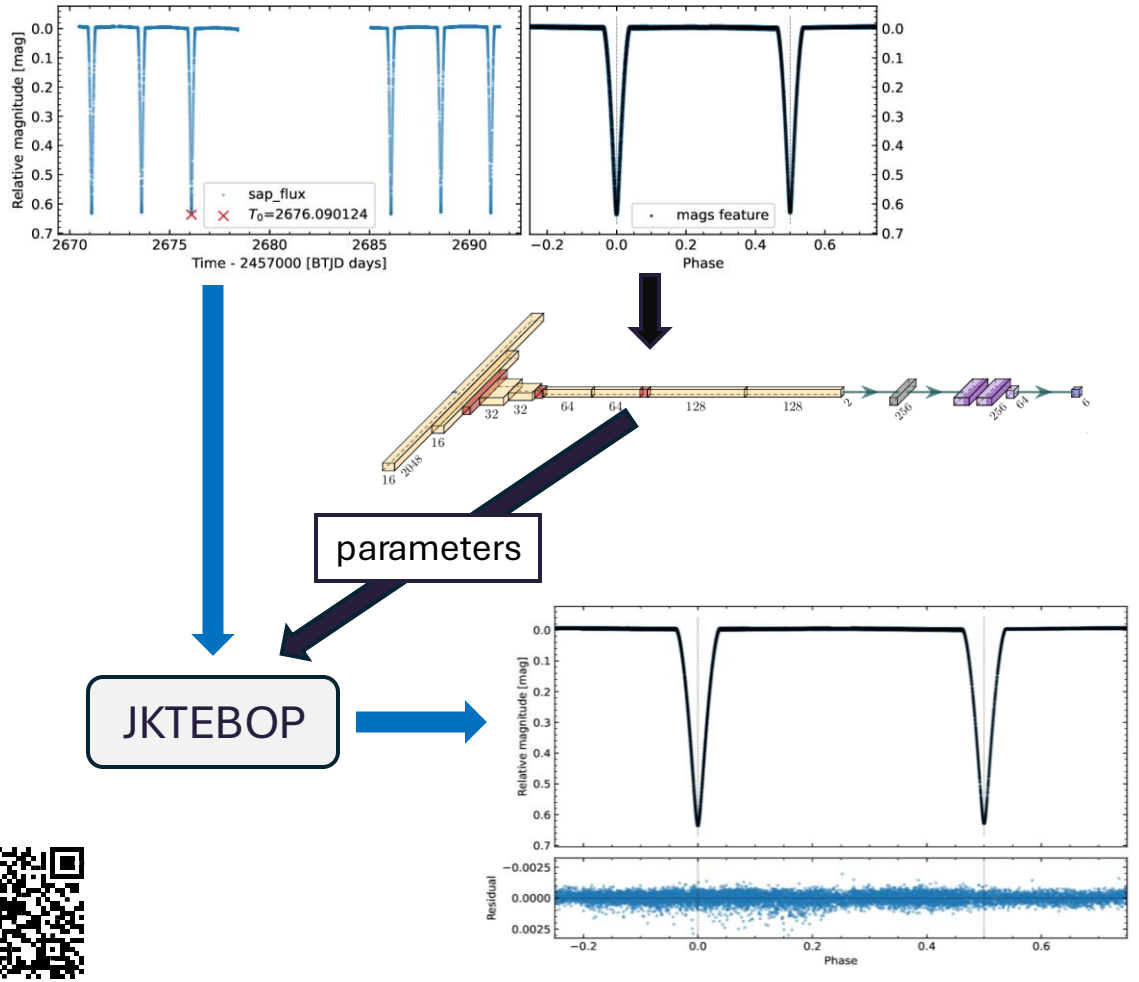
FP05

- **M**odel initi**A**l **V**alue **E**stimation **N**eural network
- A 1-d convolutional neural network (CNN) for predicting input parameters for formal analysis
  - input feature: phase-folded light curve
  - prediction: initial values for six parameters used in subsequent fitting with JKTEBOP
  - $r_A + r_B$, k, J, $e\cos\omega$, $e\sin\omega$ and i (as b_P)
- The poster covers
  - training the model
  - the training and testing datasets
  - testing results



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Or visit the **GitHub** repo at