

# Manual

Solar flares go through several stages, and there is no accurate way to forecast their strength or duration. Each of these stages might last anywhere from a few seconds and an hour. Here, we develop an automated flare detection algorithm that allows us to analyze the time-series data of the light curve.

Drag 'n' drop some files here, or click to select files

\*only ASCII, FITS, CDF, and CSV files are allowed

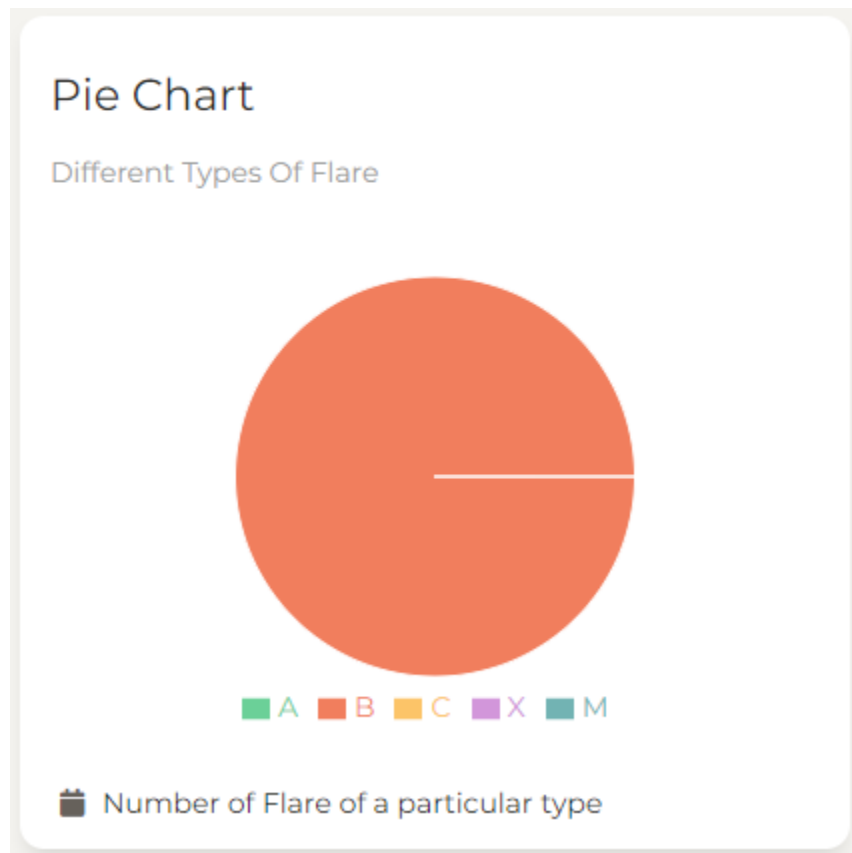
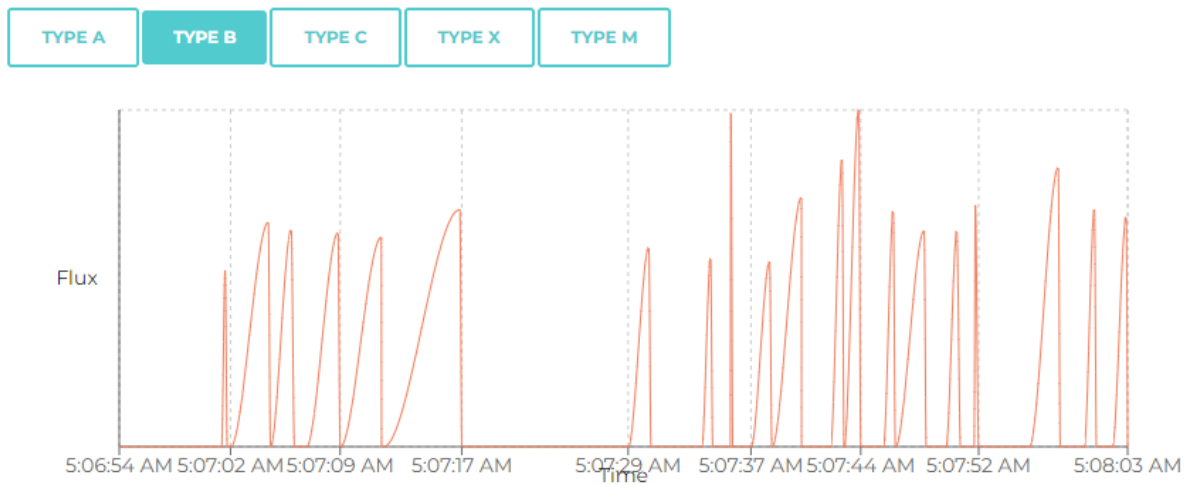
UPLOAD

Accepted files

Rejected files

In order to find these flares the user is only required to upload the light curve file(which can be in ASCII, fits, Xls, CSV format) to our application then that file is sent to our cloud server which detects the solar flares present in the file by using Machine Learning and returns the result which contains the type, rise\_time, peak\_time, decay\_time, and peak\_flux of the flares.

We then layout the result in visually pleasing graphs of flux vs time as shown below:-



The user can also download the result in a CSV file.