EXO
LOG

Presented by
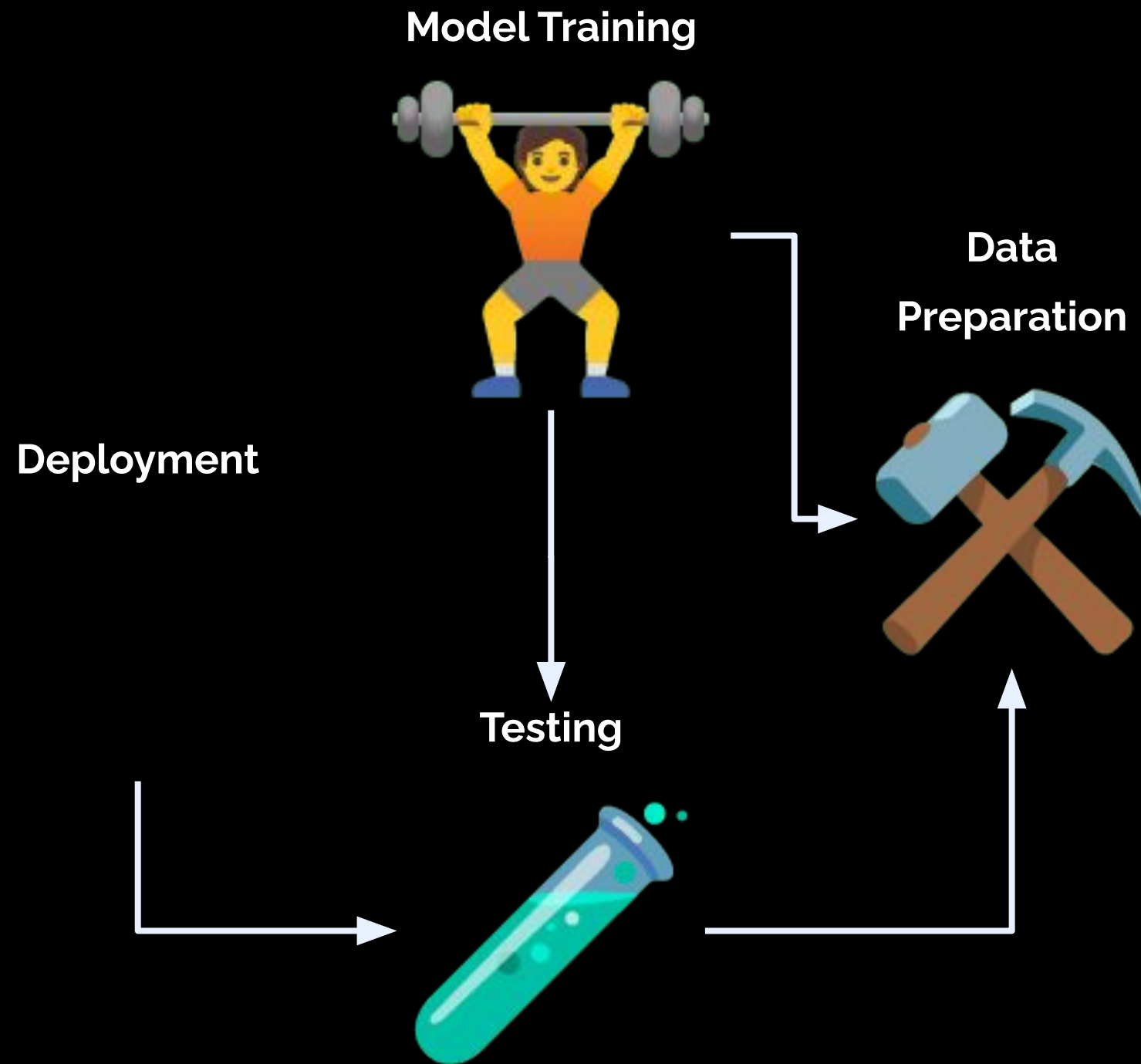NecoArch□◐↵◐□

AI Model

Model Training

Data Preparation

Deployment

Testing

Choosing the Model

after testing KNN, Forest classifier and decision tree models, we settled on a Random Forest Classifier model

Feature Engineering

Using Academic papers and statistical analysis we engineered the features to help build the best model

Cleaning the Training Data

There was a lot of data that either caused leakage, wasn't complete or simply wasn't needed. We carefully filtered the data to remove these
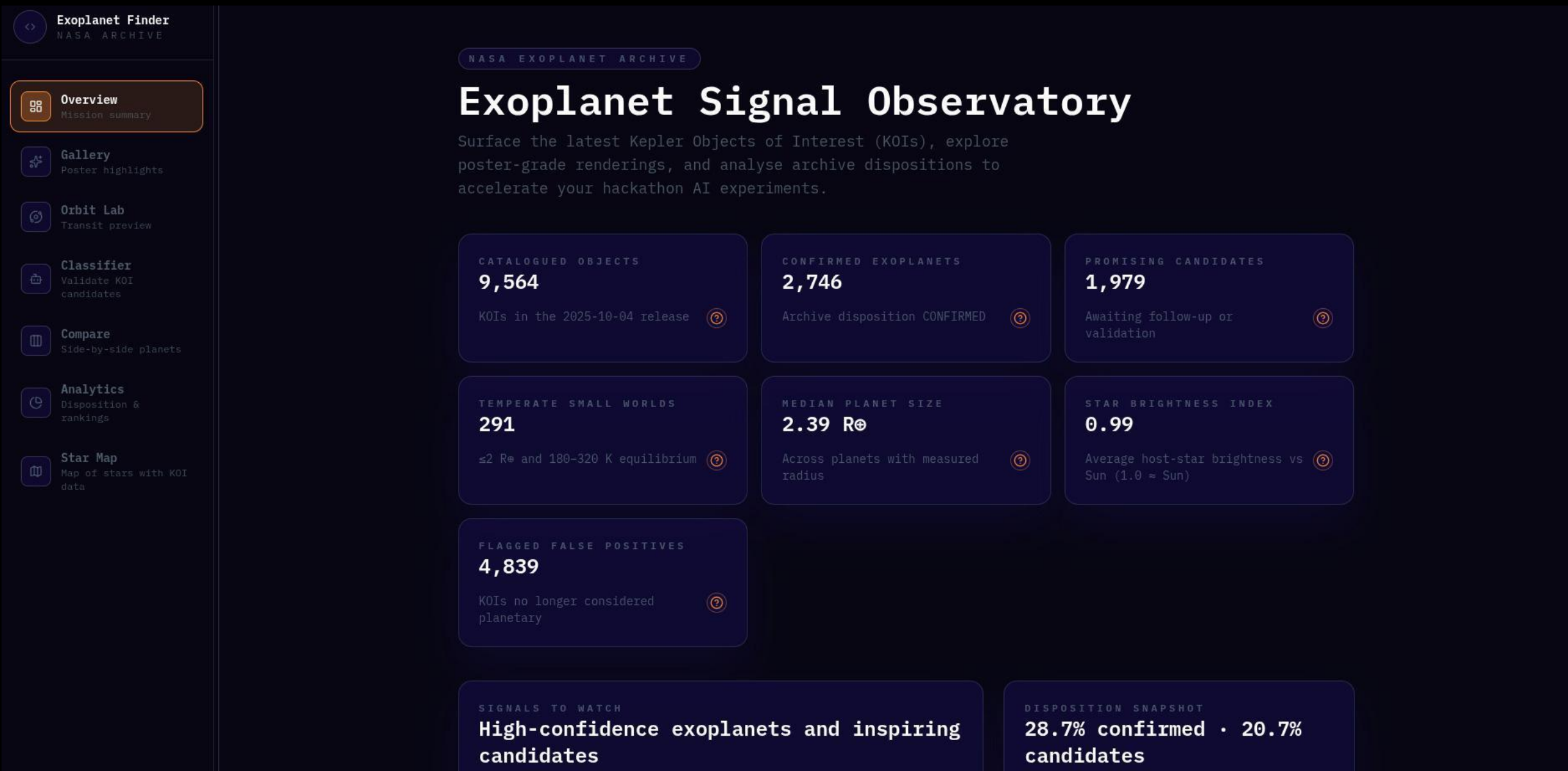
In Result: 85.16% accuracy!!!

Interacting with the Model

Data upload

Using our web interface you can choose to upload batch json or CSV data or manually enter the data from a single anomaly
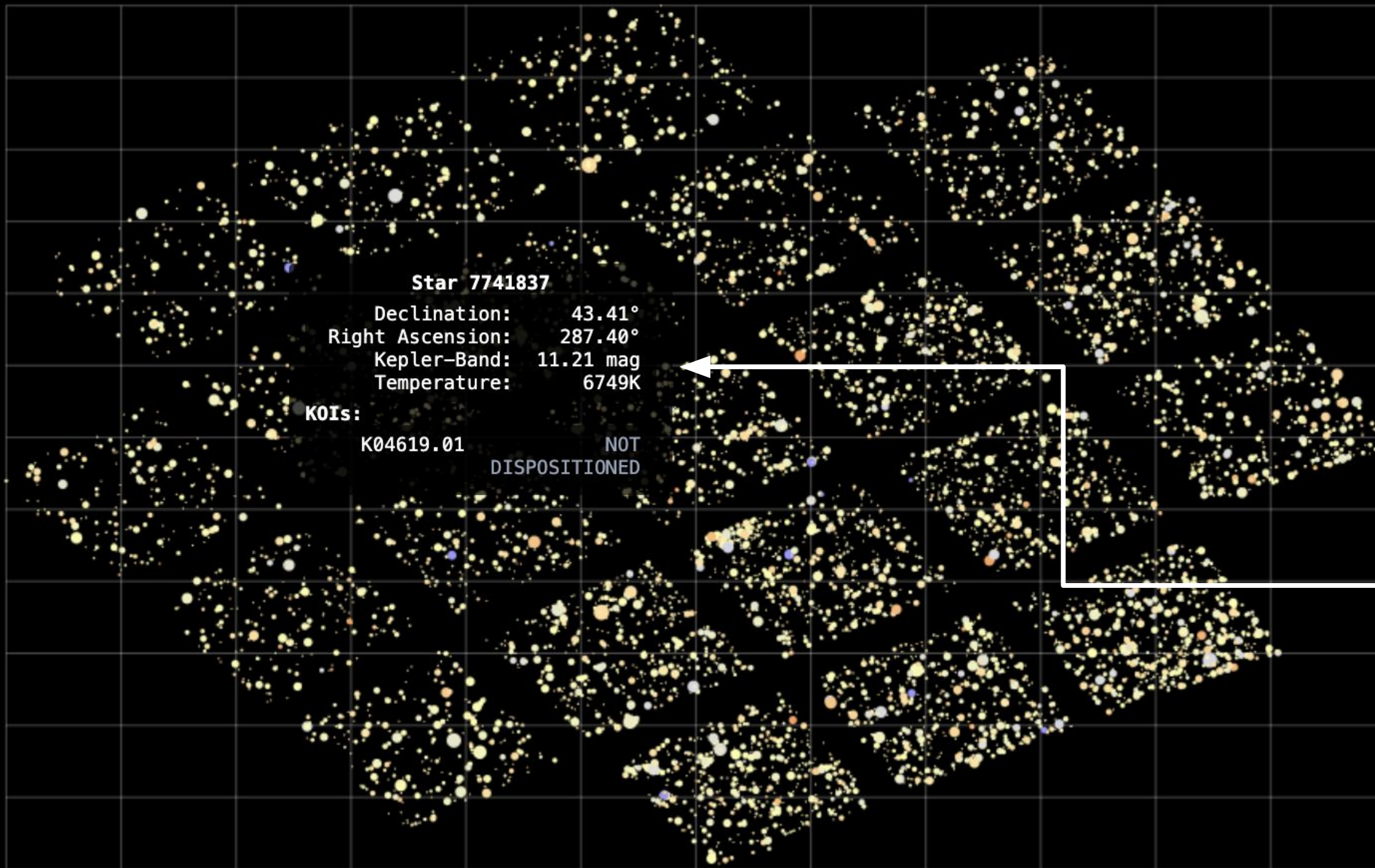
Simulation Tools

Our powerful suite of simulation tools helps you visualise and understand the data easily

Star Map

Our star map shows the Kepler data in a beautiful visualisation to show you the location of any anomaly in the data. You can even see the pattern caused by the imaging techniques used in the Kepler project

You can also see Potential/Proved/False Kepler's near every star

Star 7741837

Declination: 43.41°
Right Ascension: 287.40°
Kepler-Band: 11.21 mag
Temperature: 6749K

KOIs:

K04619.01   NOT
DISPOSITIONED

Orbit Lab

Visit our orbit lab page to see your exoplanet in action, use the playground to simulate the temperature of the star and the speed of your exoplanets orbit and see some other fascinating data

Transit preview for Kepler-227 b

Orbital speed reflects the KOI period. Use this visualization during demos or integrate the component to showcase AI detections.
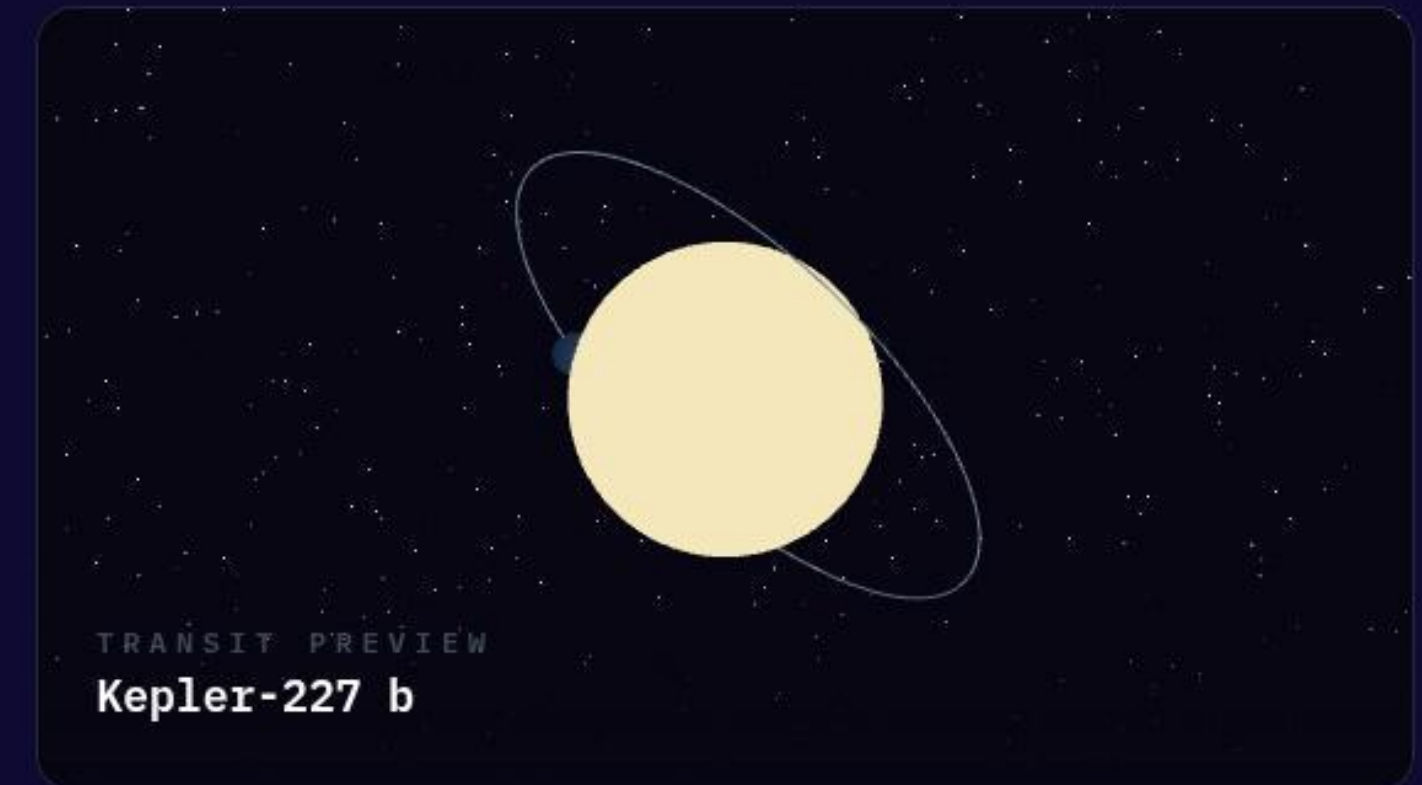
STAR TEMPERATURE CONTROL | 5455 K

3,000 K | RESET TO HOST | 30,000 K

TRANSIT PREVIEW
Kepler-227 b

ORBITAL PERIOD | PLANET RADIUS
9.49 days | **2.26 R⊕**

EQUILIBRIUM TEMP | INSOLATION
793 K | **93.6 ⊕**

Planet Gallery

use our planet gallery to search the dataset and get more information about specific exoplanets, Filter the catalogue to find exactly what you are looking for with ease

Meet the Team

Hleb - Team Leader

Hugo - ML Engineer

Nixie - AI Engineer

Emin - Backend Developer

Mark - Technical officer