



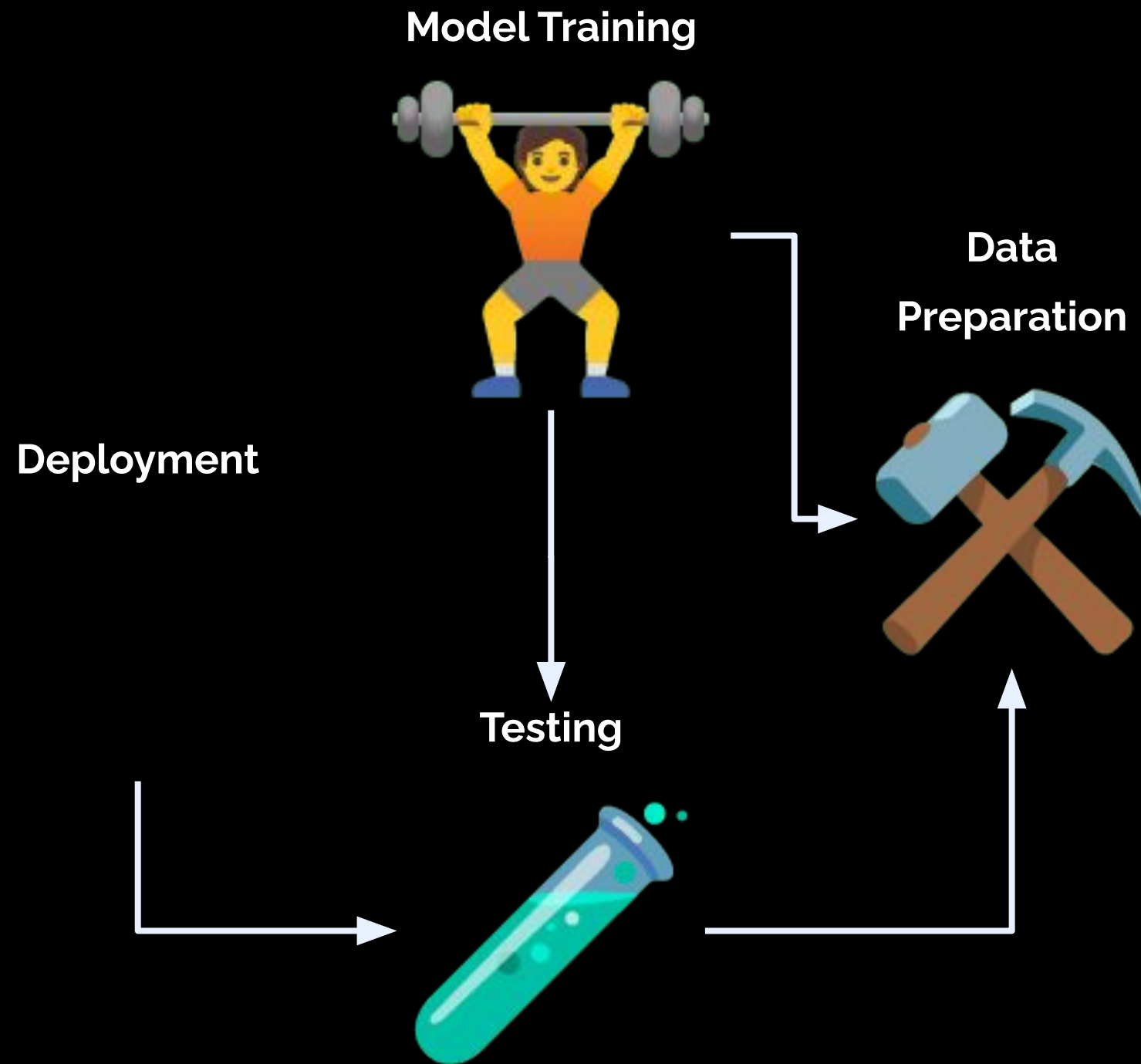


EXO LOG



Presented by
NecoArch    

AI Model



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!!!



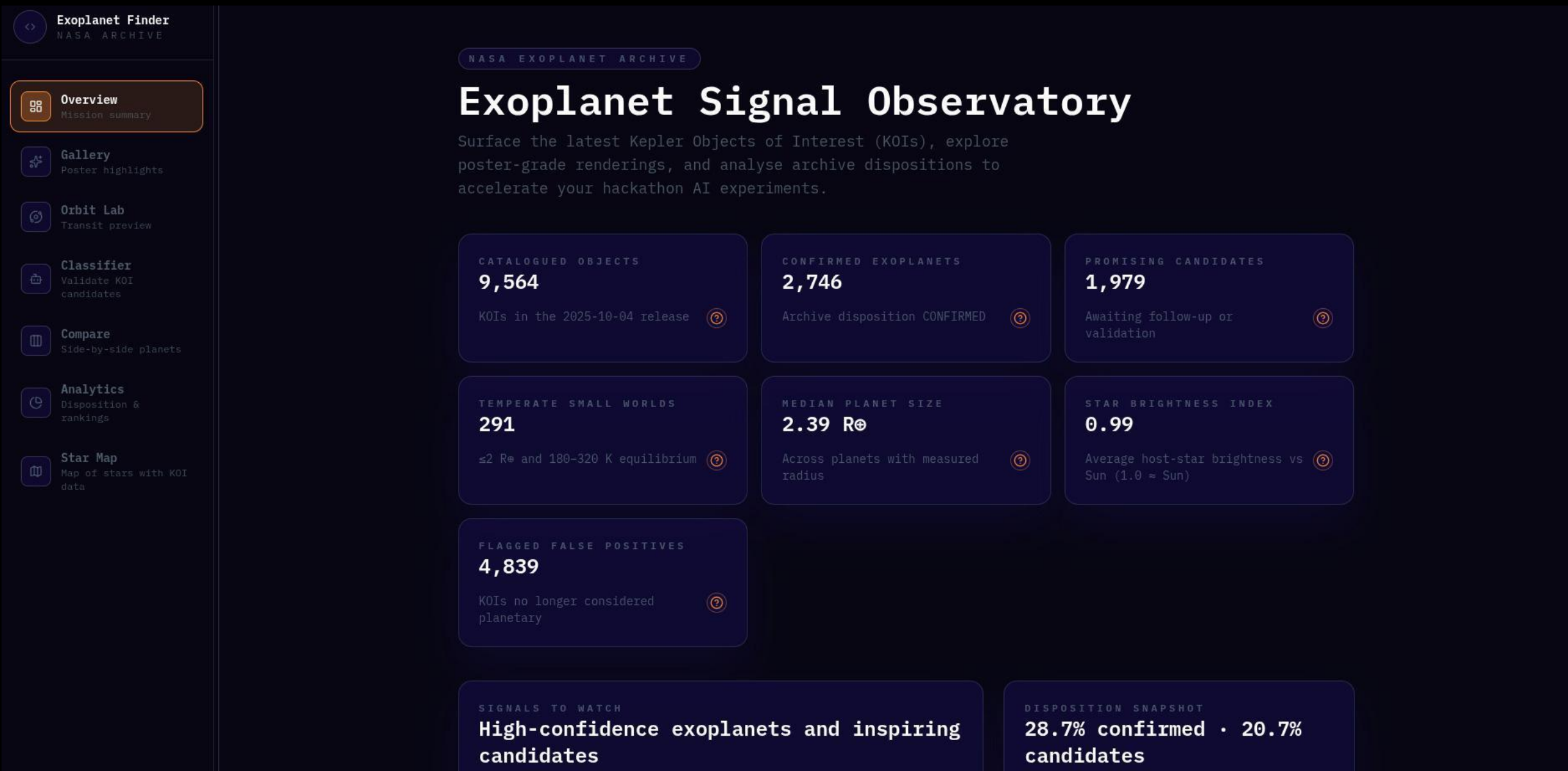
Interacting with the Model

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

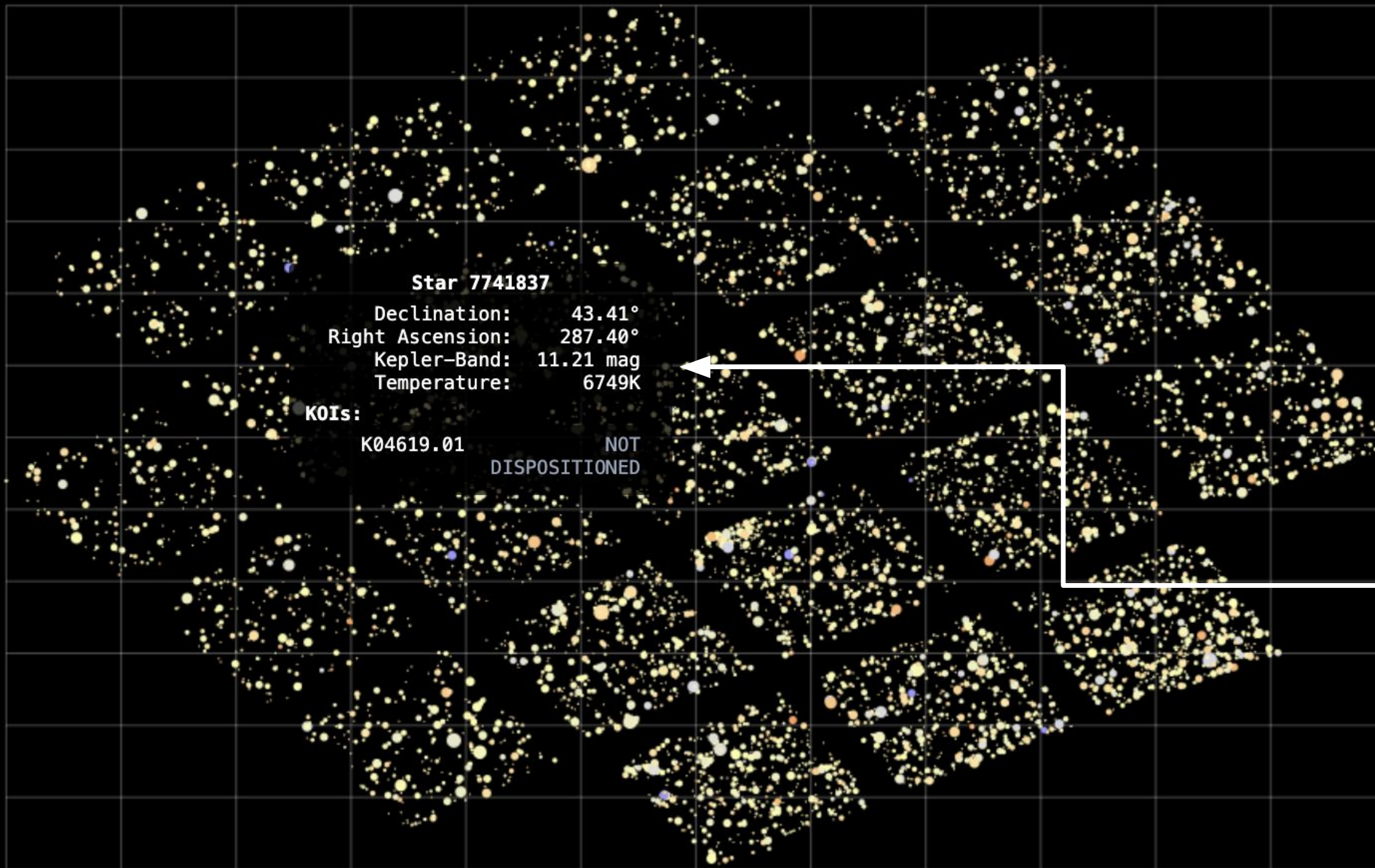
Our powerful suite of simulation tools helps you visualise and understand the data easily



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



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

KEPLER-227 B

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

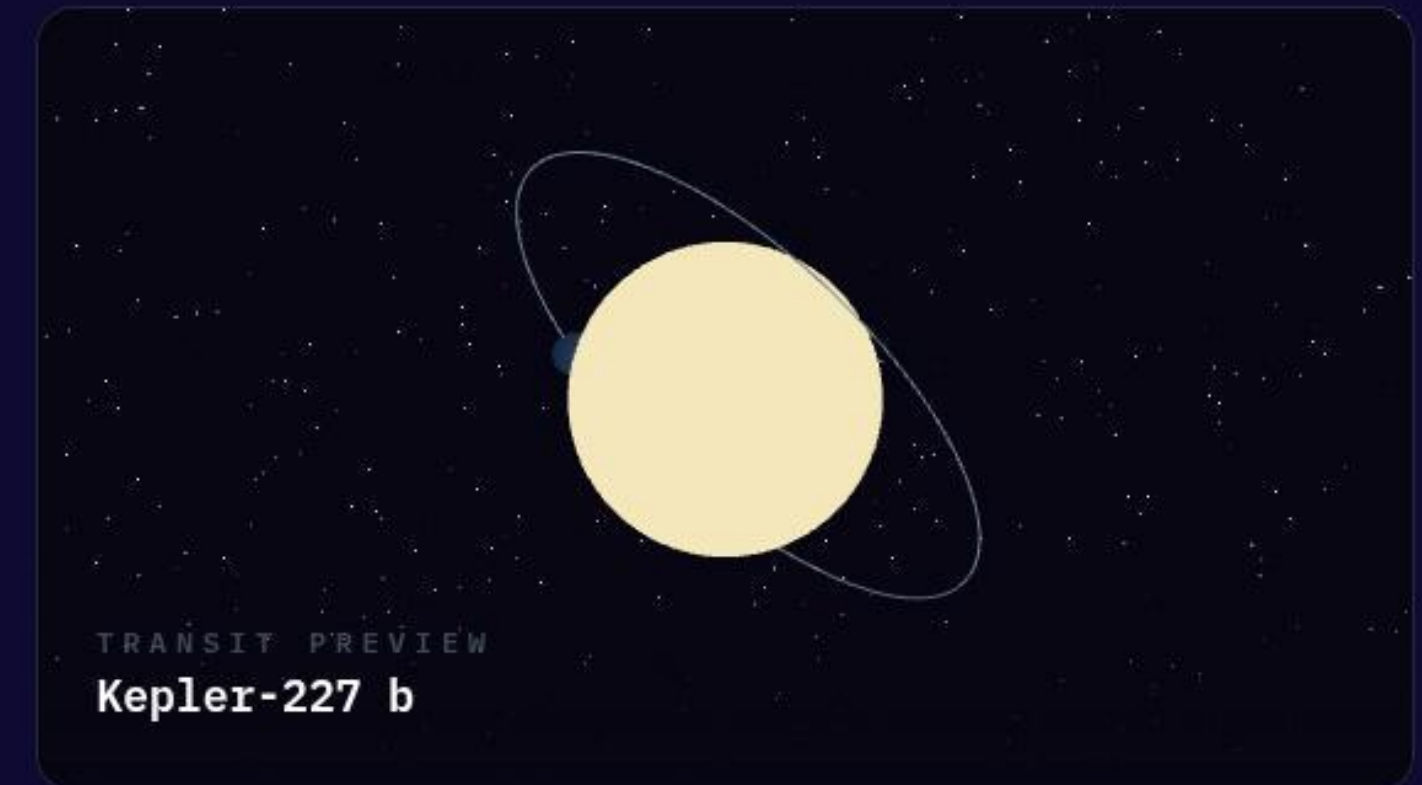
5455 K



3,000 K

RESET TO HOST

30,000 K



ORBITAL PERIOD

9.49 days

PLANET RADIUS

2.26 R_{\oplus}

EQUILIBRIUM TEMP

793 K

INSOLATION

93.6 \oplus



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

VISUAL EXPLORER

Planet Gallery

Auto-generated posters mix KOI metadata with a stylised palette so you can storyboard mission briefings, demo decks, or enhanced AI classifiers at a glance.

9,564 PLANETS

FILTER

Refine the catalog

Search or filter the KOI collection to zero in on relevant targets.

SEARCH CATALOG ID

e.g. KOI-701.03 or Kepler-62f

FAVORITES ONLY

QUICK PRESETS

HABITABLE CANDIDATES

COMPACT SYSTEMS

COOL-STAR GIANTS

SAVED FILTER SETS

SAVE CURRENT

NO SAVED SETS YET. CAPTURE YOUR GO-TO COMBINATIONS ABOVE.

DISPOSITION

ALL DISPOSITIONS

CONFIRMED

POSTER GRID

Select a world to view details or preview the orbit

Optimised for desktop · Scroll for more

CONFIRMED

Kepler-227 b

K00752.01

Procedurally generated texture inspired by KOI parameters.

PERIOD	RADIUS
9.49 days	2.26 R _e
ESTIMATED DISTANCE	
0.09 AU · 0.7 light-min	

CONFIRMED

Kepler-664 b

K00755.01

Procedurally generated texture inspired by KOI parameters.

PERIOD	RADIUS
2.53 days	2.75 R _e
ESTIMATED DISTANCE	
0.04 AU · 0.3 light-min	

CONFIRMED

Kepler-228 d

K00756.01

Procedurally generated texture inspired by KOI parameters.

PERIOD	RADIUS
11.09 days	3.90 R _e
ESTIMATED DISTANCE	
0.10 AU · 0.8 light-min	

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Meet the Team

Hleb - Team Leader

Hugo - ML Engineer

Nixie - AI Engineer

Emin - Backend Developer

Mark - Technical officer

