HABITUAL EXOPLANETS

PROJECT KEPLER-69C

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LIFE EXISTENCE ON EARTH?

- FROM TINY MICROORGANISMS TO COMPLEX CREATURES LIKE HUMANS, LIFE EXISTS!
- ADEQUATE DISTANCE FROM THE SUN
- ENOUGH AMOUNT OF WATER, FOOD, AND AIR FOR SURVIVAL
- PROTECTIVE OZONE LAYER PROTECTING FROM THE HARMFUL RAYS

WHAT ARE EXOPLANETS?

- EXIST OUTSIDE OUR SOLAR SYSTEM
- COMPOSED OF ELEMENTS AKIN TO OUR SOLAR SYSTEM'S PLANETS.
- BEGAN IN 1990S AND FOUND 1000+ USING DIVERSE METHODS.

SEARCHING THE EXOPLANET

- **TECHNOLOGICAL ADVANCES**
  - -Adaptive Optics
  - - Coronographs
  - - Space Telescopes

- **TRANSMISSION SPECTROSCOPY:**
  - - involves studying an exoplanet as it transits in front of its host star

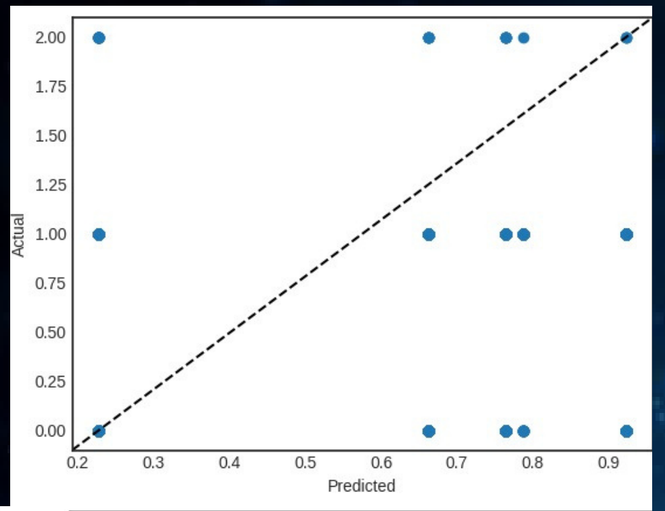
- **EMISSION SPECTROSCOPY :**
  - - STUDIES LIGHT EMITTED BY EXOPLANETS YIELDED DUE TO INTERNAL HEAT /ABSORBED STARLIGHT VALUABLE SCIENTIFIC DATA

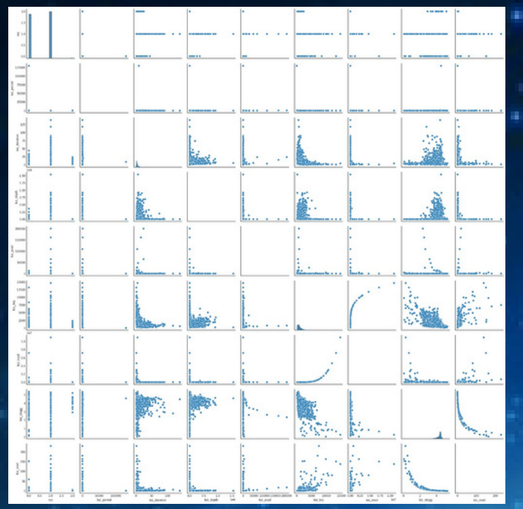
THE TERANOVA

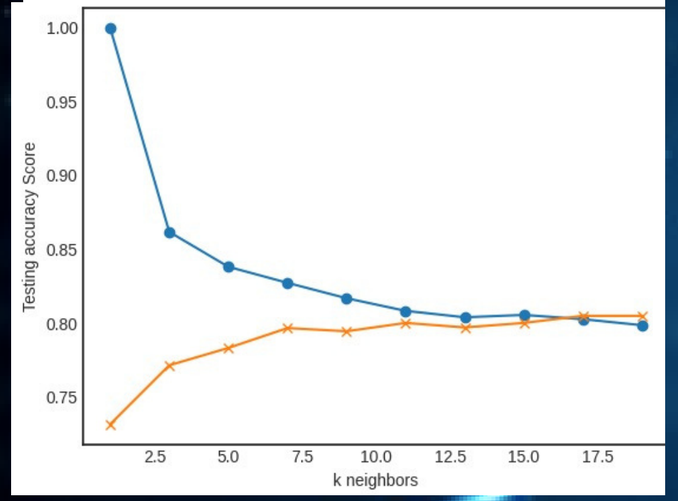
- TERANOVA IS AN IMAGINATIVE PLANET BRAIN-STORMED BY US, MIGHT BE 500 LIGHT-YEARS AWAY.
- IT'S 10% LARGER THAN EARTH IN SURFACE AREA.
- THE CLIMATE SIMILARITY TO EARTH, WITH LUSH FORESTS, OCEANS, AND MODERATE SEASONAL VARIATIONS MAKES IT HABITABLE ACCORDING TO OUR MODEL.
- THE FEATURES DIVERSITY, INCLUDING MOUNTAINS, PLAINS, AND BEACHES AND MAY BE CONSIDERED TERRESTRIAL

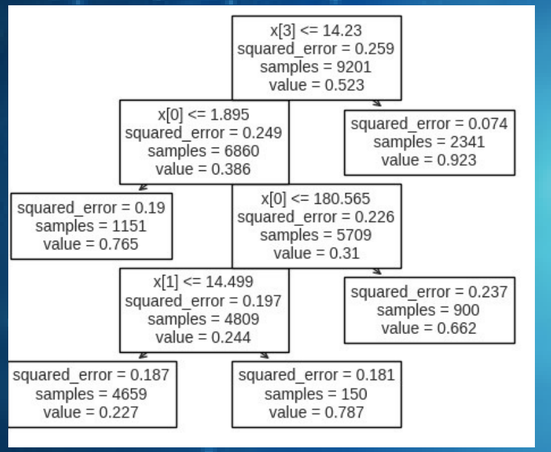
DEMO : ML MODEL

ML MODEL OUTPUTS









scan for github

scan for Habituality

THANK YOU