AN ADVANCED AGRO-ROVER
INTEGRATED WITH ML TO REVOLUTIONIZE MODERN FARMING

OBJECTIVES

Intelligent Analytics:
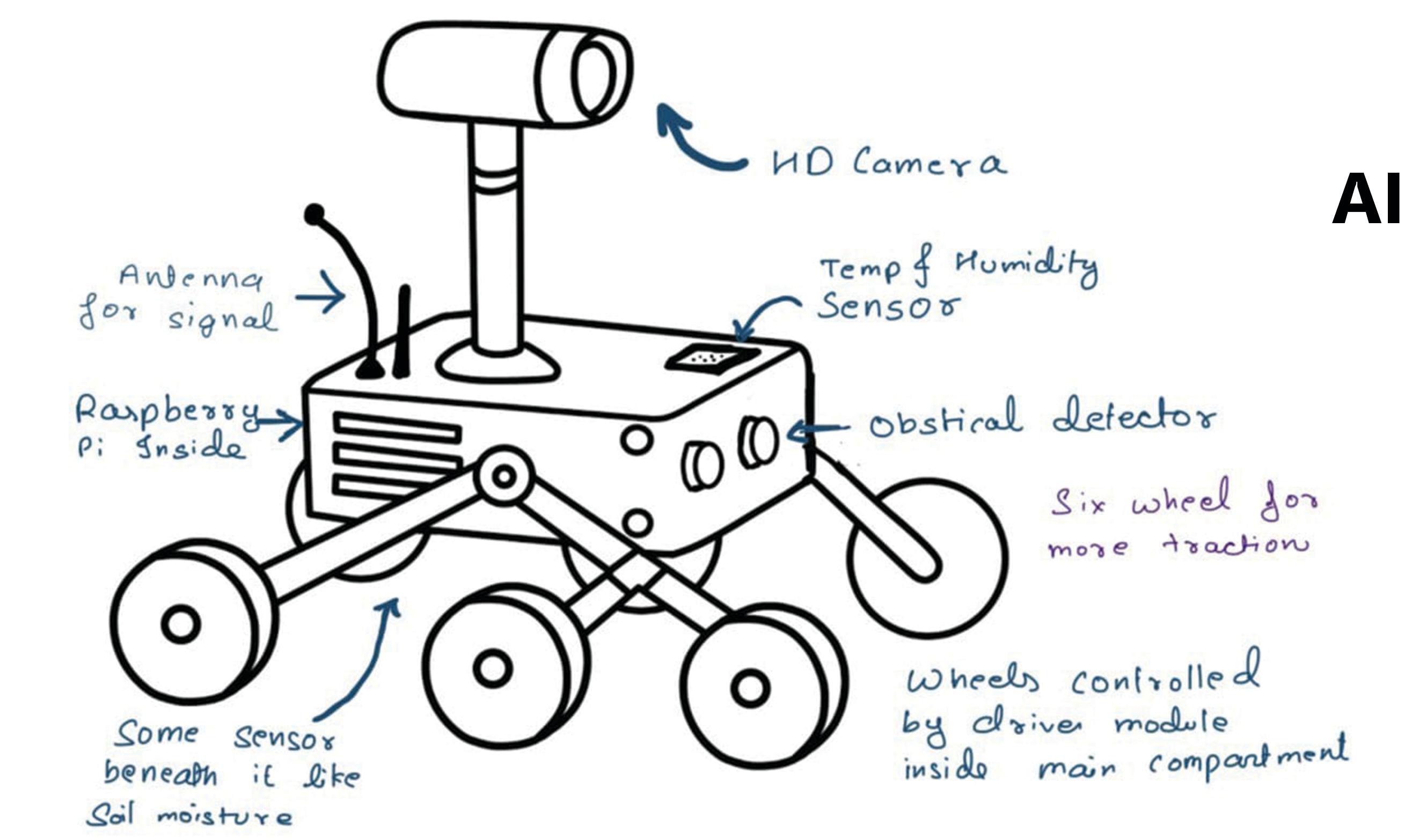Employs cutting-edge machine learning techniques for immediate analysis

Self-Guided Functionality:
Boasts autonomous navigation features for ongoing data collection across diverse landscapes

Comprehensive Sensor System:
Integrates various sensors for monitoring
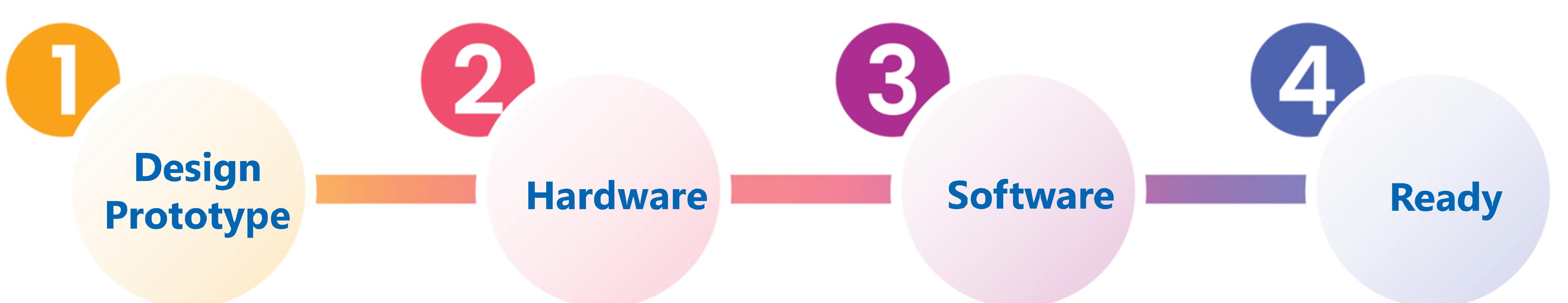
OUTCOMES

AI-Driven Crop Health Analysis:
Equipped with an HD camera and machine learning algorithms

Real-Time Monitoring:
Tracks real-time temperature and soil moisture levels

Autonomous and Scalable:
Capable of autonomous operation, making it scalable for both small farms and large agricultural fields

Hand-drawn diagram of the Agro-Rover labeled: HD Camera; Temp & Humidity Sensor; Obstical detector; Six wheel for more traction; Antenna for signal; Raspberry Pi inside; Some sensor beneath it like Soil moisture; Wheels controlled by driver module inside main compartment

PROCESS

1 — **Design Prototype**
2 — **Hardware**
3 — **Software**
4 — **Ready**

MENTOR - Dr. Puja Acharya
PREPARED BY - HARSH RAJ(2301730286) & SIRE SAINI(2301730335)