

## Job Description: AI Engineer / FastAPI Developer Intern

We are seeking a highly motivated and technically proficient AI Engineer / Backend Developer Intern with hands-on experience in FastAPI, database management, and applied machine learning. The candidate will support the development and deployment of intelligent backend systems and contribute to real-world projects in a collaborative environment.

### Responsibilities:

- Develop and test RESTful APIs using FastAPI for scalable web applications.
- Work with SQLite and MySQL for backend data management.
- Contribute to real-world automation projects including GRMS and IoT-integrated applications.
- Assist in building ML-powered systems such as automated turrets and obstacle-avoidance robots.
- Apply computer vision and clustering techniques (e.g., HOG Transform, K-Means) for robotics applications.
- Participate in project meetings and client interactions to understand technical requirements and deliverables.

### Requirements:

- Proficiency in Python and FastAPI.
- Experience with databases: SQLite, MySQL.
- Understanding of REST APIs and backend services.
- Exposure to machine learning, computer vision, and sensor-based robotics systems.
- Excellent debugging and problem-solving skills.
- Ability to work independently and in team environments.

### Preferred Qualifications:

- Currently pursuing or completed B.Tech in Automation, Robotics, or related field.

- Prior internship experience in software or robotics development.
- Knowledge of Raspberry Pi, Arduino, and Pi Cam integrations.

This role is ideal for someone enthusiastic about bridging AI with real-world applications and eager to grow in backend and robotics-driven domains.