

# AI / ML Intern - Job Description

Position: AI / ML Intern

Type: Internship (Full-time / Part-time / Remote / Onsite / Hybrid)

Duration: 3 to 6 months

Location: [City, Remote / Hybrid / Office]

Stipend / Compensation: [Optional / Negotiable]

About Us:

[Brief intro about the company, mission, domain, tech stack, product, why AI/ML matters to your business.]

Role Overview:

As an AI/ML Intern, you will work closely with the engineering and data science teams to build, experiment, and deploy

machine learning models. You will get hands-on experience in the full lifecycle of ML systems - from data gathering

and preprocessing to model development, evaluation, and production deployment.

Key Responsibilities:

- Assist in collecting, cleaning, and preprocessing datasets (structured, unstructured).
- Explore, analyze, and visualize data to derive insights and inform modeling choices.
- Implement and experiment with machine learning algorithms (supervised, unsupervised, reinforcement).
- Train, validate, and tune models; perform error analysis and model improvement.
- Help integrate ML models into existing systems or pipelines (APIs, microservices).

- Write modular, testable, and maintainable code.
- Collaborate with cross-functional teams to understand requirements and translate them into ML solutions.
- Document processes, experiments, results; present findings to stakeholders.
- Stay up to date with recent research, libraries, and tools in AI/ML.

#### Required Skills & Qualifications:

- Pursuing or recently completed a degree in Computer Science, Mathematics, Statistics, Engineering or equivalent.
- Solid programming skills in Python.
- Experience with libraries like NumPy, Pandas, scikit-learn.
- Understanding of ML concepts: regression, classification, clustering, overfitting/underfitting, cross-validation.
- Data handling (cleaning, missing values, normalization).
- Analytical and problem-solving skills.
- Basic knowledge of Git.
- Willingness to learn TensorFlow, PyTorch, etc.

#### Preferred / Bonus Skills:

- Experience with deep learning, CNNs, RNNs, transformers.
- Familiarity with cloud platforms (AWS, GCP, Azure) and ML pipelines.
- Experience with deploying models (Docker, REST APIs).
- Exposure to MLOps, CI/CD for ML.
- Working knowledge of SQL, NoSQL, ETL.
- Participation in ML/AI projects or competitions.
- Understanding of NLP, computer vision, or time series analysis.

## Learning Outcomes / What You Will Gain:

- Real-world experience in building and deploying ML solutions.
- Exposure to production challenges: scalability, robustness, performance.
- Mentorship and code reviews from experienced engineers.
- Opportunity to contribute to research or innovation.
- Possible full-time offer based on performance.

## Evaluation / Selection Process:

1. Resume screening & project portfolio review
2. Coding / ML challenge or take-home test
3. Technical interview (algorithms, ML concepts, system design)
4. Culture / fit / discussion round
5. Optionally: assignment or project sample
6. Final offer and onboarding

## How to Apply:

Send your resume, GitHub/project links, and a short statement of what you want to learn to [email@company.com] with subject "Application for AI/ML Intern - [Your Name]."