

Machine Learning Operations (MLOps) Engineer Job Description template

Machine Learning Operations (MLOps) Engineer Job Description Template/Brief

We are seeking a skilled MLOps Engineer to streamline our machine learning workflows. The MLOps Engineer will focus on developing and maintaining our ML infrastructure to ensure smooth deployment and monitoring of models. The ideal candidate should possess strong programming skills and experience with cloud platforms.

Machine Learning Operations (MLOps) Engineer Job Profile

An MLOps Engineer collaborates with data scientists to automate and manage machine learning model lifecycles. They ensure models are scalable, reliable, and integrated into production systems. This role requires proficiency in cloud infrastructure and DevOps practices.

Reports To

The MLOps Engineer typically reports to the Head of Data Science or the Chief Technology Officer.

Machine Learning Operations (MLOps) Engineer Responsibilities

- Design and implement scalable machine learning deployment pipelines.
- Collaborate with data scientists to integrate models into production environments.
- Monitor model performance and automate retraining processes.
- Develop tools for data validation, model testing, and versioning.
- Ensure compliance with data governance and security policies.
- Maintain and optimize cloud-based ML infrastructure.
- Troubleshoot and resolve ML operational issues.
- Document processes and provide technical support to teams.

Machine Learning Operations (MLOps) Engineer Requirements & Skills

- Proven experience as an MLOps Engineer or in a similar role.
- Strong programming skills in Python, R, or similar languages.
- Familiarity with cloud platforms like AWS, Azure, or GCP.
- Experience with containerization tools like Docker and Kubernetes.
- Knowledge of CI/CD pipelines and automation frameworks.
- Understanding of machine learning concepts and algorithms.
- Excellent problem-solving abilities and attention to detail.