ML Infrastructure Engineer Job Description template

ML Infrastructure Engineer Job Description Template/Brief

We are seeking a skilled ML Infrastructure Engineer to enhance our machine learning operations. The role involves building and maintaining the infrastructure that supports our ML models and data pipelines. The ideal candidate should have strong expertise in ML infrastructure tools and cloud platforms.

ML Infrastructure Engineer Job Profile

An ML Infrastructure Engineer is responsible for designing and managing the underlying systems that support machine learning models. They ensure that the data pipelines are efficient and the model serving infrastructure is scalable and reliable. This role demands proficiency in cloud technologies, automation, and a deep understanding of ML workflows.

Reports To

The ML Infrastructure Engineer reports to the Head of Machine Learning or the Director of Engineering.

ML Infrastructure Engineer Responsibilities

- Build and maintain scalable ML model serving infrastructure.
- Develop and manage data pipelines for ML model training and inference.
- Collaborate with data scientists to deploy and monitor ML models in production.
- Automate processes for model training, deployment, and monitoring.
- Ensure data security and compliance in ML operations.
- Integrate ML infrastructure with existing IT systems and tools.
- Optimize resource usage and costs on cloud platforms.
- Investigate and resolve issues related to ML infrastructure performance.
- Stay updated with the latest trends in ML infrastructure and cloud technologies.

ML Infrastructure Engineer Requirements & Skills

- Experience with cloud platforms like AWS, GCP, or Azure.
- Proficient in using ML infrastructure tools such as TensorFlow Serving, Kubeflow, or MLflow.
- Strong understanding of data pipelines and ETL processes.
- Experience with containerization and orchestration tools like Docker and Kubernetes.
- Proficiency in a programming language such as Python or Java.
- Good knowledge of CI/CD processes and tools.
- Ability to work collaboratively in a team environment.
- Strong problem-solving skills and attention to detail.