

Mara O'Connor — MLOps Engineer

Years of Experience: 8
Associate in Statistics

MARA O'CONNOR
MLOPS ENGINEER
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SUMMARY

Dynamic MLOps Engineer with eight years of experience across Europe, specializing in data analytics, machine learning development, and scalable orchestration of AI solutions. Using an associate degree in Statistics, I have optimized predictive models, automated deployment pipelines, and delivered high availability data science workflows for leading technology firms.

SKILLS

MLOps, Docker, Kubernetes, CI/CD, Terraform, AWS, GCP, Azure, Python, R, SQL, Data Pipelines, Statistical Modeling, Agile Scrum

EXPERIENCE

- Led a cross-functional team to implement CI/CD pipelines for ML models using GitLab CI, Terraform, and ArgoCD.
- Architected a multi-region deployment strategy on AWS and Azure, enhancing fault tolerance and reducing latency for global users.
- Mentored junior engineers in best practices for model versioning, observability, and data privacy compliance.
- Orchestrated end-to-end ML pipelines with Kubeflow and Airflow, ensuring reproducibility across cloud environments.
- Built scalable model-serving infrastructure on Kubernetes, integrating Prometheus and Grafana for real-time monitoring.
- Collaborated with data scientists to transition models from prototyping to production, reducing deployment time by 40%.
- Designed and trained supervised and unsupervised models (gradient boosting, clustering) to forecast customer churn and market demand.
- Implemented feature engineering pipelines and automated model validation workflows using Docker and Jenkins.
- Optimized model performance through hyperparameter tuning and ensemble techniques, achieving a 15% lift in predictive accuracy.
- Collected, cleaned, and transformed large datasets to support business intelligence initiatives.
- Developed and maintained interactive dashboards using Power BI and Tableau for executive reporting.
- Collaborated with cross-functional teams to translate statistical insights into actionable strategies.

EDUCATION

Associate - Statistics
Statistical Data Science Institute | Birmingham, United Kingdom | 2014

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