DevOps Engineer

Information Technology, Telecommunications, and Security

In the sphere of DevOps, the proliferation of AI-based tools, while streamlining the monitoring and optimization of infrastructures, injects a nuanced complexity, requiring professionals to adeptly interpret data and make discerning judgements.

This necessitates DevOps professionals not only to actively engage with AI-enhanced analytics but also to integrate a context-driven decision-making approach, which is deeply rooted in a comprehensive understanding of system interactions, a keen awareness of end-user needs, and a strategic alignment with the company's overarching objectives

Automation degree: 13.33%

Limited Impact of AI on the Job

Main tasks

This section reviews the 3 main tasks associated with the job studied and assesses the potential level of automation induced by AI **(« AI Automation Impact »)**.The modeling uses 8 criteria detailed on the **« Methodology »** page.

Tasks	AI Automation Impact
Collaborate closely with developers and operations teams to automate and optimize workflows	Moderate
Set up and maintain tools and infrastructure for continuous application deployment	Low
Monitor application performance and ensure its availability	Significant

Impact on skills

At-risk Skills ↓	
Implementation & maintenance of continuous integration/deployment tools	With the evolution of cloud technologies and « as-a-service » tools, it has become increasingly easier to establish and manage CI/CD pipelines without the need for deep human intervention. Tools like GitHub Actions, GitLab CI/CD, and others offer more user-friendly methods to manage these pipelines.
Basic monitoring and alerting	Automated monitoring and alert systems have become the norm. Tools like Prometheus, Grafana, and others can automatically detect anomalies and send alerts without requiring complex manual setup.
Future-proof Skills ↑	
Inter-team collaboration	The ability to collaborate closely with developers, operational staff, and other stakeholders is crucial. This « human » skill is difficult to automate as it requires effective communication, conflict resolution, and a nuanced understanding of the needs and challenges of each team.
Workflow optimization	While some tools might suggest improvements, the ability to analyze and rethink existing workflows to make them more efficient requires critical thinking and a deep understanding of the processes. This skill combines technical understanding with an overview of the development process.

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