WILL AI REPLACE ME?

Telecom Engineer

Information Technology, Telecommunications, and Security

Telecom engineers already benefit from AI to optimize telecommunication infrastructures. AI-based tools facilitate fault prevention, bandwidth optimization, and efficient traffic management. However, collaboration with providers and making strategic decisions require distinct human expertise.

Thus, AI provides advantages in terms of optimization and maintenance, working in complement to the engineer's skills.

Automation degree: 33.33%   Moderate but identified automation impact of AI for this Job

33.33%

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
Design and optimize telecommunication infrastructures	Moderate
Supervise the installation, maintenance, and troubleshooting of telecom equipment	Significant
Collaborate with suppliers and partners to ensure service continuity	Significant

Impact on skills

At-risk Skills ⬇

Monitoring the Delivery of a Service	With the rise of AI, control and monitoring systems can be automated to ensure services are properly delivered, thus reducing the need for manual control.
Selecting Suppliers, Sub-contractors, Service Providers	AI-based recommendation platforms could simplify this task by pre-selecting suppliers based on defined criteria.

Future-proof Skills ⬆

Coordinating Team Activity	Coordination and management of human teams require interpersonal skills, leadership, and an understanding of nuances that cannot be easily automated.
Evaluating the Needs and Operational Requirements of an Infrastructure	While AI can help provide data, the interpretation of this data and making strategic decisions will require human expertise.

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