



easyJet

Flight Engineer Saves 60 Hours per Month, Cuts Data Processing Time by 80%

Dorota Kowalska is a Reliability Engineer at easyJet, one of the world's largest airlines with over 300 aircraft and operating around 1,000 routes across 35 countries. Safety is the airline's highest priority, and Dorota's work focuses on analysing aircraft systems to inform corrective and preventative actions to ensure the highest standards of safety are maintained.

A chance to automate work

Collecting, cleansing, analysing and interpreting reliability data has always been core to Dorota's role at easyJet. And as her team began redesigning reliability processes, she felt there was never a better time for her to upskill and learn techniques to automate manual work.

That's why she saw immediate potential for benefit when, by chance, a colleague told her about Cambridge Spark's Data Analyst Apprenticeship.



“ By applying the analytical skills I learned on the programme, I have automated multiple reliability reports using PySpark and SQL, replacing manual processes and decreasing data processing time by about 80% in some cases.”

Dorota Kowalska
Reliability Engineer

Learner Profile

Company: easyJet
Job function: Engineering
Job title: Reliability Engineer
Industry: Aviation
Company Size: 13,000 employees
Programme: Level 4 Data Analyst
Programme Duration: 14 months



Fuelling analysis with Python

Dorota and her team use Skywise to process and analyse data. Skywise is a dashboarding platform compatible with Python and commonly used in the aviation industry. And because Python is a core first module in the Data Analyst curriculum, Dorota was able to apply her learnings in her work almost from the first day she began the apprenticeship in September 2021.

Working with fleet engineers on performance studies, she completed around 150 data analyses. Her findings even informed a broader business campaign to upgrade a specific aircraft part, bringing both improved performance and cost savings to easyJet.

“If you enjoy solving tricky problems and are interested in creating a modern working environment, there is no better way to strengthen your career than undertaking a data apprenticeship with Cambridge Spark.”

Dorota Kowalska
Reliability Engineer

Results



60 hours per month saved by automating manual processes using PySpark and SQL



150 data analyses completed to improve fleet performance



Promoted within 1 year of starting the programme

Balancing work, learning and motherhood

As both a full-time working professional and mother of two young boys, Dorota needed a flexible learning experience to help her stay on top of her daily responsibilities.

She says EDUKATE.AI, Cambridge Spark's online learning platform, helped her achieve this in two crucial ways:

- 1 Instant feedback on coding assignments allowed her to make progress anytime, day or night
- 2 Support from mentors and the Knowledge Base forum helped her overcome challenges and solidify her learning

And regular one-to-one meetings with her success coach, one of her favourite parts of the programme, helped her prioritise her personal goals.