

Data Engineer - Job Ad

Job Title	Data Engineer
Location	Oxford, UK (Hybrid model)
Salary	£40,000 - £55,000pa + Annual bonus

Are you passionate about using data to improve cancer care and make a real difference in people's lives? Do you want to join a fast-growing startup at the forefront of AI-driven healthcare solutions? Do you have experience building and maintaining scalable data pipelines and infrastructure? If so, we want you to join our team at Optellum!

About Us

Optellum is an AI-driven healthcare company dedicated to revolutionizing early interception and treatment of lung disease, starting with the deadliest: lung cancer. We are a growing team of scientists, engineers, and healthcare professionals working together to make a difference in the fight against lung cancer. Our mission is to ensure every patient with lung cancer is diagnosed at the earliest stage.

We have developed the first FDA-cleared and CE-marked product for diagnostic support of patients with suspicion of lung cancer, using AI applied to medical images. We are working to expand our platform to drive optimal decisions across the lung cancer patient journey and into the early diagnosis and treatment of other deadly diseases of the lungs.

What We Offer:

- Work that is both challenging and rewarding and has a real positive impact on people's lives.
- Fast growth, ownership, and high impact in a growing startup.
- A culture of continuous learning and professional development to help you grow and develop your skills.
- Flexible working hours and location - Hybrid model, with at least two days preferred in our Oxford office.
- Competitive salary, equity, and benefits.
- Great location in Oxford's historical centre: just 5 min walk to train station, 1h to central London

About the Role

We are looking for a skilled Data Engineer to help us build and maintain our data infrastructure. In this role, you will work closely with a diverse team of experts in machine learning, image

processing, and medical sciences to create innovative solutions that will help improve cancer care in thousands of hospitals.

As a Data Engineer at Optellum, you will be responsible for building the data infrastructure that supports our machine-learning research and development. You will develop and maintain our data pipelines, databases, and warehouses, processing hundreds of thousands of medical images and ensuring our data is easily accessible, organized, and scalable. Your work will be critical to the success of our AI solutions, ensuring that our technology is built on the most reliable and up-to-date data infrastructure.

Key Responsibilities:

- Design, build, and maintain scalable and efficient data pipelines and infrastructure using Python, SQL, and other relevant tools.
- Collaborate with research scientists and engineers to make data accessible for modelling and analysis.
- Leverage in-house machine learning algorithms to improve our data curation workflows.
- Develop and maintain data storage systems that meet our performance and scalability requirements.
- Monitor and optimize the performance and cost-effectiveness of our data infrastructure.
- Identify and troubleshoot data-related issues, provide solutions, and optimize data workflows.
- Identify and implement improvements to our data infrastructure, ensuring it is scalable and able to support the growth of our AI solutions.

About You

We are looking for an experienced data engineer with a passion for working with data and a proven track record of delivering complex data solutions. You should have the following:

Essential:

- Bachelor's or Master's degree in Computer Science, Mathematics, or a related field.
- A few years of experience in Python programming on a Linux platform in an agile industry environment involving test-driven development, continuous integration, version control, and peer code review.
- Experience building and maintaining data pipelines, storage, and infrastructure in a production environment.
- Experience using compute and storage on one or more major cloud platforms (we work with Azure).
- Experience with CI/CD.
- Experience in computer vision, machine learning, bio-informatics or medical informatics.
- Strong problem-solving skills and attention to detail.
- Excellent communication skills and ability to work collaboratively with cross-functional teams.
- Eligibility to work in the UK without restrictions as visa sponsorship is not provided.

Desirable:

- Experience working in healthcare or other highly regulated industries.
- Experience working with medical image data (DICOM) and Electronic Patient Record data.
- Familiarity with container technologies and cluster orchestration such as Docker and Kubernetes
- Experience with scientific computing (e.g. SciPy) and deep learning (e.g. PyTorch, TensorFlow).
- Passion for biomedical topics.

Optellum is an Equal Opportunities Employer. We are committed to creating a diverse and inclusive workplace and welcome applications from all qualified candidates regardless of race, gender, disability, religion/belief, sexual orientation, or age.

If you are excited about the opportunity to work with a talented and dedicated team to make a difference in the fight against lung cancer, we would love to hear from you.