

Senior Data Scientist - AI Safety Solutions

RINICOM is a Lancaster-based technology company that has been pioneering secure communications and detection systems since 2002. We specialise in creating state-of-the-art solutions for law enforcement agencies, first responders, and critical infrastructure protection facilities. Our award-winning portfolio includes AI-powered surveillance systems, real-time video analytics, and innovative mesh communication networks. As a two-time recipient of the Queen's Award for Enterprise, RINICOM combines cutting-edge R&D with practical deployment expertise, delivering bespoke solutions across defence, transport, emergency response, and maritime sectors. Our mission is to become the leading provider of technical solutions that enable customers to deploy the best possible systems rapidly and effectively.

Role Summary

We are seeking an experienced Senior Data Scientist to join our growing team and lead the development of data-driven AI safety solutions. This role offers the opportunity to work on pioneering technology that directly impacts public safety, leveraging advanced analytics, machine learning, and large language models to extract insights from complex datasets and create intelligent systems that respond dynamically to real-world conditions.

Required Skills & Experience:

- PhD or Master's degree in Data Science, Statistics, Computer Science, Mathematics, or related quantitative field
- 4+ years of experience in data science with focus on computer vision, NLP, or time-series analysis
- Strong expertise in Python, R, and SQL with experience in data manipulation libraries (pandas, numpy, scikit-learn)
- Proficiency with machine learning frameworks (PyTorch, TensorFlow, Keras) and computer vision libraries (OpenCV, PIL)
- Experience with big data technologies (Spark, Hadoop, Kafka) and cloud platforms (AWS, Azure, GCP)
- Proficiency in Python; experience with OpenCV, PyTorch or TensorFlow.
- Experience with real-time video processing frameworks (e.g., GStreamer, FFmpeg).
- Familiarity with Text-to-Speech tools and APIs (e.g., Google TTS, Amazon Polly, ElevenLabs).
- Knowledge of camera calibration, homography, and spatial mapping.
- Ability to work with edge devices or embedded systems (e.g., Jetson Nano, Raspberry Pi) is a plus.
- Strong problem-solving and debugging skills.
- Good understanding of system integration and deployment.

Desired Qualifications

- Experience applying data science in transport, infrastructure, or public safety sectors
- Knowledge of computer vision techniques and experience with video analytics
- Experience with large language models, NLP, and generative AI applications
- Previous work with government funding programmes or innovation projects

- Publications in data science, machine learning, or applied analytics journals
- Experience with MLOps tools and platforms (MLflow, Kubeflow, Docker, Kubernetes)
- Understanding of data privacy, security, and regulatory compliance requirements
- Experience with edge computing and real-time analytics systems

Salary

Salary will be determined based on experience, skills and other relevant considerations.

Benefits:

- 25 days' annual leave, plus bank holidays
- NEST pension scheme
- Free on-site parking
- Location within walking distance from the city centre and railway station
- Cycle to work scheme

Career Development

This role offers significant growth opportunities within RINICOM's expanding AI safety portfolio. The successful candidate will have the chance to lead data science initiatives, mentor junior team members, and shape the future direction of our data-driven safety solutions across multiple industry verticals. There are opportunities to progress to Senior Data Scientist and Lead Data Scientist roles.

Application Process

Please submit your CV along with a cover letter explaining your interest in applying data science to safety applications and relevant experience with machine learning, computer vision, and large-scale data analysis. Include examples of previous work with real-time analytics systems and any experience with safety-critical applications or public sector projects.

Don't meet every single requirement? At Rinicom Ltd, we are committed to building a diverse, inclusive and safe workplace for everyone. If you are excited about this role but your experience and/or qualifications don't match the job description exactly, we encourage you to apply anyway; you might still be a good fit for our growing business!

If you would like to apply for the position, please send your CV and a covering note to office@rinicom.com