Software Engineer – Field Data Science

Description

What is Sylvera anyway? 󠁢󠁢󠁢󠁢󠁢󠁢Sylvera provides carbon data for genuine climate impact. Our mission is to incentivize investment in real climate action.

Purchasing credits through the carbon markets is one of the most established and scalable ways to channel finance from the private sector to effective climate solutions and work toward societal net zero. Unfortunately, the voluntary carbon markets have been plagued with mistrust and a lack of effectiveness since they've emerged – until Sylvera.

To help organizations ensure they're making the most effective investments, Sylvera builds software that independently and accurately automates the evaluation of carbon projects that capture, remove, or avoid emissions. With Sylvera's data and tools, businesses and governments can confidently invest in, benchmark, deliver, and report real climate impact.

Our team is made up of leading minds in climate change from scientists to policy, finance and carbon market experts. We work in partnership with scientific organisations, universities, governments and think tanks to develop and test rigorous and holistic ratings methodologies, leveraging the latest technology. Founded in 2020, Sylvera has 150+ employees across the world with offices in London, New York, Belgrade and Singapore. We've raised over $96million from leading VCs like Balderton Capital, Index Ventures and Insight Partners to date.

What will I be doing? 󠁢󠁢󠁢󠁢󠁢󠁢󠁢The Field Data Science team at Sylvera is on a mission to accurately value the carbon stored across the world's ecosystems, so that our customers can be sure that they are investing in real climate action. We do this by realising the combined potential of spaceborne remote sensing and AI for ongoing and accurate carbon accounting; something that has to date been limited by the lack of quality in-situ training data. Our team collects and processes these data – we have for example, pioneered multi-scale lidar methods for above-ground biomass estimation, that sees us collect laser scanning measurements from across the world's forests using drones and helicopters.

The team are currently working on building the capability to map soil organic carbon (SOC) stocks globally using machine learning and Earth observation data. And they are looking for a team member who will be foundational to building this capability, whose responsibilities will include:- Developing this pipeline with good software engineering practices front of mind, such that the resulting data can be reliably and scalably consumed by internal and external customers- Working in collaboration with scientific and engineering experts to design, construct and test machine learning models that use various geospatial covariates to predict soil organic carbon- Proactively collaborating with colleagues across Sylvera; including with our Earth Data Platform team to collaborate on scalable engineering and ML practices, and with the customers of the resulting data

We're looking for someone who: 󠁢󠁢󠁢󠁢- Has demonstrable experience and skills in developing production pipelines in Python with software engineering practices including Git, CD/CI and test driven development (desirably with experience using Docker, CircleCI and Dagster, or similar)- Has a keen interest and desire to work with machine learning (experience with [PyTorch](#) and computer vision models such as CNNs desirable)- Ideally has previous experience working with geospatial data (GDAL and xarray desirable)- Cares deeply about the climate and ecosystems of the earth- Is a self-starter who thrives in constantly evolving environments, ideally with early-stage experience- In case you're interested, our tech stack is as follows (not necessary for you to have experience in all of these): – Python – key packages: – Testing: pytest – Geospatial: Xarray, Rioxarray, GeoPandas, GDAL – ML: PyTorch, SKLearn – NumPy – Git & GitHub – Docker – CD/CI: CircleCI – Data

pipeline orchestration: Dagster – Cloud data platform: Arraylake, SnowflakeWe'd like someone highly ambitious, motivated and eager to propel their career forward. We prioritise grit, positivity, and the willingness to get stuck in, and encourage you to apply even if your experience doesn't exactly match this job description

Benefits ▯▯- Equity in a rapidly growing startup- Private Health Insurance and Life Assurance – Unlimited annual leave – and encouragement to actually use it!- Enhanced parental leave – Up to 20 days paid sick leave – £500 WFH allowance – No corners cut in having the best tech to do your job- Access to Mental Health support via Spill- Monthly team socials

Location ▯▯ UK (with access to an office in London if you wanted to come in)

Our Values ▯▯Own it: We make new mistakes. We build on the momentum of our wins and reflect on and learn from our failures.Stay curious: We keep our focus on the long-term, even if that means short-term challenges.Do what's right – even when it's hard: We take a growth mindset to our work, our customers, our market and the opportunities ahead of us. Collaborate and challenge with empathy: Our teams deliver through active collaboration. We invest in each others' success and make the company stronger in the long-run.Empower Customers: Make extraordinary efforts to exceed our customer expectations. If we're serving our customers to the fullest, we can help direct more investment into real climate impact.

What if you're a partial fit? ▯▯We prioritise grit, positivity, and the willingness to get stuck in, and encourage you to apply even if your experience doesn't exactly match this job description.

Equal employment opportunity ▯▯Sylvera is an equal opportunity employer: we value diversity. We do not discriminate on the basis of race, religion, colour, national origin, gender, sexual orientation, age, marital status, veteran status, or disability status.

How the process will look like

Your teammates will gather all requirements within our organization. Then, once priority has been discussed, you will decide as a team on the best solutions and architecture to meet these needs. In continuous increments and continuous communication between the team and stakeholders, you're part of making data play an even more important (and understood) part withing Brand New Day.

Job Benefits

GBP 40K – 74K *