JOB DESCRIPTION

Role: **Senior Data Scientist**

Project: Cambridge SupTech Lab

Expertise: Reproducible Analysis, ML / Statistical Modeling, Data Munging

Start Date: Immediately

Duration: 12 months, with an aim to extend

Level of effort: Full-time position

Location: Remote/Worldwide – with preference for Cambridge, UK or New York, USA

About the Cambridge SupTech Lab

Financial supervision is currently undergoing a profound paradigm shift, marked by a radical cultural evolution and extensive digital transformation. Financial supervisory agencies are undergoing a metamorphosis, transitioning from reactive, inertial, and localized organizations to their next iteration. They are becoming more forward-looking, innovative, agile, and collaborative, effectively equipped to tackle the challenges of the 21st century.

At the Cambridge SupTech Lab, we are driving the acceleration of this transformation by empowering a new generation of public sector managers, supervisors, technical experts, data scientists, and technologists to lead the innovation within their respective agencies. Moreover, we actively contribute to the development of a suptech marketplace that fulfills the financial authorities' demand for cutting-edge, flexible, and ethical solutions through the supply provided by vendors.

To fulfill our mission, we focus on the following key initiatives:

i. Delivering world-class online leadership and professional education, experiential training, ground-breaking research, market intelligence, new analytical frameworks, and innovative digital tools.
ii. Mitigating the risks associated with the procurement of cutting-edge suptech applications.
iii. Providing assistance to financial authorities and vendors in the development, testing, and deployment of these solutions.
iv. Cultivating a community of Innovation Leaders who are passionate about leveraging data to create innovative, inclusive, and resilient financial sectors that drive socio-economic and environmental sustainability.

Through these efforts, we aim to shape the future of financial supervision by fostering collaboration, knowledge sharing, and the adoption of groundbreaking technologies. Together, we can pave the way for a more efficient, transparent, and sustainable financial ecosystem.

The Lab is an initiative of the Cambridge Centre for Alternative Finance (CCAF) at the University of Cambridge Judge Business School.

Your role
We seek an experienced and actively curious data scientist to co-develop and run with our growing portfolio of data-centered projects. They will be responsible for both external deliverables (e.g., digital tools, data science trainings, and online curricula) as well as internal data products (e.g., for informing strategy, tracking team performance).

Responsibilities
- Formulating, suggesting, and managing data-driven projects geared at furthering the business's interests:
    - Developing data-driven digital tools for use by financial authorities.
    - Developing curricula for executive education courses on data science, analytics, and ethics.
    - Providing inputs for development of formal data scenter strategy for financial authorities.
    - Shaping secondment programme for data scientist from the tech industry to financial authorities.
    - Contributing to creating data science offices in financial authorities.
- Collating and cleaning data from various entities for later use by data analysts and interns.
- Monitoring the performance of analysts and interns, and providing them with practical guidance, as needed.
- Introducing and enforcing best practices in data science for our core team as well as our external community (e.g. selecting and employing advanced statistical procedures to obtain actionable insights, cross-validating models to ensure their generalizability).
- Producing and disseminating non-technical reports that detail the successes and limitations of each project.
- Suggesting ways in which insights obtained might be used to inform business strategies.
- Staying informed about developments in data science and adjacent fields to ensure that outputs are always relevant.

Requirements and qualifications
Essential:
- Extensive experience in data collection, processing, storage, analysis, and productisation, including the deployment of data products for use by external users.

- Demonstrated technical capabilities (proficiency in R or Python, in-depth understanding of SQL, familiarity with MLOps/DevOps best practices).
- Competent in machine learning principles and techniques.
- Demonstrable history of devising and overseeing data-centered projects.
- Exceptional written and oral communication, particularly in tailoring technical topics to the needs of a less technical audience.
- Ability to relay insights in layman's terms, such that these can be used to inform business decisions.
- Active curiosity, attention to detail, and passion for the field of data science and its practical applications to drive impact.
- Outstanding supervision and mentorship abilities.
- Capacity to foster a healthy, stimulating work environment that frequently harnesses teamwork.
- Ability to work in an unstructured environment and balance competing priorities.
- Compliance with prevailing ethical standards.

Desired:

- Advanced degree in data science, statistics, computer science, or similar.
- Past work in building training and curricula.
- Experience with content aggregation, web scraping, NLP.
- Direct experience of working with/for a financial regulator/central bank/relevant authority.
- Strong writing and communication skills (English).
- Able to organise ideas logically and effectively, while clearly communicating those that are interesting and important to specific underlying research-related topics.

Candidates need to succeed in technical skills, but also need to embody soft skills to achieve long-term success at Cambridge SupTech Lab:

- Emotional intelligence, communication & empathy – How is your ability to collaborate effectively with others and work in teams, build relationships, share ideas, and manage conflict?
- Creativity & problem-solving skills – Are you an analytical and critical thinker? Can you find creative solutions to problems?
- Adaptability & flexibility – Our working environment and culture requires you to be agile and adaptable to succeed in this role. Are these your qualities?

What we offer

- A job and a team with a purpose. This is a chance to work on actual challenges in the financial sector that greatly affect our economies and society as a whole, and to have a real impact using data and tech to transform the public sector.

- True commitment to innovation and to break new ground in this field.

- Exposure to leading thinkers, researchers, and solution creators in the financial and tech space, and in the academic world as well.

- Opportunities to frame evidence-based discussions in a rapidly evolving niche industry.

- Opportunities to develop and lead a growth area within the policy and tech field.

- Significant professional growth potential.

- Competitive compensation.

- Flexible work schedule.

How to apply

Interested candidates should apply through our website.