

Data Scientist

Location: Beijing

A global energy group with worldwide R&D networks focuses on energy innovation and applied research. Based in the group's China R&D centre in central Beijing, you will join the Digital Innovation team as a Data Scientist, responsible for exploring advanced local digital technologies, building technical prototypes and empowering energy businesses with data-driven solutions. You will collaborate with local business teams and global R&D departments to deliver practical digital project outcomes and cutting-edge technical research.

一家布局全球研发网络的国际能源集团，专注能源领域创新与应用研究。本次岗位坐落于北京市中心的中国研发中心，隶属于数字化创新团队，担任数据科学家。主要负责挖掘国内前沿数字化技术、搭建技术原型，通过数据方案赋能能源业务；联动国内业务及全球研发团队，落地数字化项目、输出可落地技术成果，同时推进前沿技术研究工作。

Core Mission

- Build reliable and standardized data engineering systems, explore efficient data preprocessing methods, and develop automated tools for data collection, cleaning and processing.
- Carry out landing research of cutting-edge AI technologies including GenAI, deep learning and computer vision, develop high-performance algorithm models to solve actual business problems in the energy industry.
- Continuously track and verify emerging digital and AI technologies, iterate technical solutions, and apply innovative technologies to forward-looking R&D projects to drive team technical upgrading.

岗位职责

- 搭建稳定规范的数据工程体系，研究高效的数据预处理方案，开发自动化工具，完成数据采集、清洗、规整全流程工作。
- 落地生成式 AI、深度学习、计算机视觉等前沿人工智能技术，研发高性能算法模型，解决能源行业各类实际业务场景问题。
- 持续跟进、验证行业新兴技术，迭代优化技术方案，将创新技术应用于前沿研发课题，推动团队技术升级与创新落地。

Key Responsibilities

- Responsible for exploring and optimizing data preprocessing methods, independently developing supporting tools to realize efficient collection, cleaning and pre-processing of massive data.
- Skilled in processing large-scale datasets based on local HPC and cloud computing platforms to support subsequent model training and data analysis work.
- Develop high-performance algorithms based on large language models, deep learning and reinforcement learning, and apply them to time series analysis, computer vision, automated process design and other scenarios.

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- Complete AI application landing such as image defect detection of photovoltaic and wind turbine equipment, intelligent agent tool development for green hydrogen and industrial electrification, and edge algorithm performance optimization.
- Output research results through API interfaces and interactive dashboards, and complete professional result presentation and technical communication for project stakeholders.
- Keep learning and researching the latest industry technologies and best practices, continuously iterate and upgrade technical solutions, and empower cutting-edge R&D innovation.

工作内容

- 负责探索、优化数据预处理方法，独立开发配套工具，实现海量数据的高效采集、清洗与规整处理。
- 依托本地高性能计算集群及云计算平台，完成大规模数据集处理工作，支撑后续模型训练与数据分析业务。
- 基于大语言模型、深度学习、强化学习研发高性能算法，落地应用于时序数据分析、计算机视觉、自动化流程设计等场景。
- 完成光伏、风机设备图像缺陷检测、绿氢与工业电气化智能代理工具开发、边缘端算法优化等 AI 项目落地。
- 通过 API 接口、可视化交互看板输出研发成果，面向项目相关方完成成果汇报与技术对接工作。
- 持续调研学习行业前沿技术与最优实践，迭代升级技术方案，助力团队前沿研发创新。

Job Requirements

- Master degree or above in Computer Science, Computer Engineering, Statistics, Artificial Intelligence and other related majors.
- Solid theoretical foundation in mathematics, computer science and statistics, with in-depth understanding of machine learning principles.
- Proficient in Python programming, with practical experience in Linux, CUDA, Transformer, Pytorch and other mainstream technical frameworks.
- Practical project experience in computer vision, including object detection, image segmentation and data augmentation.
- Have landing experience of generative models, capable of developing and optimizing multi-modal models for text and image data.
- Standard and maintainable coding habits, able to independently complete model development, debugging and iteration.
- Familiar with explainable AI principles, with large dataset construction and evaluation experience is preferred.
- C++ programming capability is a plus.
- Good communication skills and team spirit, able to adapt to a multicultural international R&D environment.

任职要求

- 计算机、软件工程、统计学、人工智能等相关专业，硕士及以上学历。
- 具备扎实的数学、计算机、统计学功底，深入掌握机器学习核心原理。

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- 精通 Python 编程，熟练使用 Linux、CUDA、Transformer、Pytorch 等主流技术框架，具备扎实实操能力。
- 拥有计算机视觉落地项目经验，熟练掌握目标检测、图像分割、数据增强等核心技术。
- 具备文本、图像多模态生成模型研发落地经验，可独立完成模型开发与优化。
- 代码编写规范、可读性与可维护性强，具备独立的模型调试、迭代能力。
- 了解可解释人工智能原理，拥有大规模数据集搭建、评测经验者优先。
- 掌握 C++ 语言者优先加分。
- 沟通能力良好、具备优秀团队协作意识，可快速适配国际化多元研发办公环境。

Language Requirements

- Fluent in Chinese.
- Fluent in both written and spoken English.
- French proficiency is a strong plus.

语言要求

- 中文流利，日常沟通无障碍。
- 英语听说读写流利，可作为工作语言。
- 掌握法语者优先加分。

投递方式

Application:

请将中英文简历及动机信发送至

Please send your Chinese and English CV and cover letter to

Bj-hr@ccifc.org

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