



Job Title: Data Scientist

Location: Lisbon, Portugal

Job Type: Full-time, Permanent

Company Overview:

Fieldwork Robotics is a pioneering technology company that develops modular, multi-crop, soft, and adaptive robots designed to operate in non-controllable environments such as agricultural fields. Our innovative solutions focus on delivering advanced technologies to enhance efficiency and productivity in the agriculture sector. Join us in revolutionizing the future of farming with our groundbreaking robotics solutions.

Job Summary:

We are seeking a talented and experienced Data Scientist to join our team and help derive valuable insights from the data generated by our robots. The successful candidate will be responsible for analyzing vision and software data, developing advanced models, and generating insights to optimize the performance and efficiency of our robotic systems. This role requires a deep understanding of data science techniques and a passion for applying these skills to solve real-world challenges in agriculture.

Key Responsibilities:

Data Analysis and Insights:

- Analyze large, complex datasets generated by our robots, including vision and software data, to uncover patterns and insights that can drive optimization.
- Develop and apply sophisticated statistical models, machine learning algorithms, and data analysis techniques to extract actionable insights.
- Collaborate with cross-functional teams to understand data requirements and deliver insights that support the continuous improvement of our robotic systems.

Model Development:

- Design and implement advanced models for data analysis, prediction, and optimization of robotic performance.
- Utilize state-of-the-art machine learning and deep learning techniques to process and analyze vision data.
- Continuously refine and enhance models based on feedback and new data to improve accuracy and reliability.

Data Integration:

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- Integrate data from various sources, including vision systems, sensor data, and customer-generated data, to create comprehensive datasets for analysis.
- Ensure data quality, consistency, and integrity throughout the data lifecycle.
- Visualization and Reporting:
- Develop and maintain dashboards and visualizations to present complex data and insights in an accessible and actionable manner.
- Prepare detailed reports and presentations to communicate findings and recommendations to stakeholders, including senior management and technical teams.

Optimization and Testing:

- Conduct experiments and simulations to test hypotheses and validate models.
- Provide insights and recommendations for optimizing robotic performance, including speed, accuracy, and efficiency.
- Work closely with engineering and software teams to implement and validate improvements based on data-driven insights.

Qualifications and Skills:

- Advanced degree (Master's or PhD preferred) in Data Science, Computer Science, Statistics, Applied Mathematics, or a related field.
- Proven experience (3+ years) in data science, with a strong track record of analyzing complex datasets and developing advanced models.
- Proficiency in programming languages such as Python or R, and experience with data analysis libraries (e.g., Pandas, NumPy) and machine learning frameworks (e.g., TensorFlow, PyTorch).
- Experience with computer vision techniques and libraries (e.g., OpenCV) is highly desirable.
- Strong analytical and problem-solving skills, with the ability to think creatively and develop innovative solutions.
- Excellent communication and interpersonal skills, with the ability to clearly articulate complex concepts to both technical and non-technical audiences.
- Familiarity with robotics, agriculture, or a related industry is a plus, but not required.
- Experience with data visualization tools (e.g., Tableau, Power BI) and SQL for data manipulation and querying.

Benefits:

- Competitive salary and benefits package.
- Opportunity to work with a pioneering technology company.
- Career growth prospects within a dynamic and innovative industry.
- Flexible working hours and a collaborative work environment.
- Profit sharing/share options.
- On-site parking.
- Company events & social hours.
- Casual dress.

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Application Process:

Interested candidates are invited to submit their resume and a cover letter detailing their relevant experience and why they are interested in this role. Please include your current position, notice period, and salary requirements.

Deadline: [Insert Application Deadline]

Reference ID: APPLICATION-DS-2024

Fieldwork Robotics is an equal opportunity employer. We celebrate diversity and are committed to creating an inclusive environment for all employees.

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