Data Scientist – Statistics and Machine Learning

Research & Development - Indianapolis, IN, US

Req ID: 207403W-01

Description

Corteva Agriscience™ has an exciting opportunity for a Data Scientist to join our Data Science group located in Indianapolis, IN. We are seeking a strong Data Scientist with background in Statistics and Machine Learning to support and drive our growing data science efforts in Bioengineering and Bioprocessing R&D. The candidate will be joining a strong, globally distributed data science team that develops and applies innovative tools and techniques for analyzing datasets towards delivering insights for our R&D and other functions.

The candidate must have a strong technical background and demonstrated expertise in applying state-of-the-art data analytics for research problems using diverse datasets. Preference will be given to candidates with familiarity with biotechnology.

Key responsibilities include:

Promoting the application and adoption of statistical analysis, machine learning modeling and data science capabilities for Bioengineering and Bioprocessing R&D through strong technical and interpersonal abilities

- Partnering with leading R&D scientists to advance discovery, characterization, development, and manufacture of natural products through data science
- Providing statistical and machine learning expertise, and collaborate with scientists to improve hypothesis formulation, experimental design, data collection, modeling, process design and interpretation of complex datasets to enable data-driven decisions
- Developing and deploying end-to-end data engineering and data science pipelines at scale for users with diverse backgrounds in chemical and biological disciplines

Qualifications

Educational Qualifications

Ph.D. degree in Statistics, Biostatistics, Computer Science (Machine Learning) or related fields. Two or more years experience post PhD is preferred but not required.
**Required Qualifications**

Extensive experience with big data engineering, descriptive statistics, dimensionality reduction, predictive modelling and validation (mixed-models, non-linear regression, principal components, cross-validation techniques, etc.)

- Knowledge of simulation techniques and optimization methods with multiple constraints

- Understanding of high-performance machine learning algorithms (decision trees, neural networks, SVM etc.).

- Solid expertise in a scientific programming language (e.g. R, Python) preferably in a HPC or Cloud environment.

- Written and verbal communication skills and the ability to successfully collaborate and lead projects with colleagues from diverse technical backgrounds

- Critical thinking and strong problem-solving skills

**Preferred Qualifications**

- Experience with software libraries to implement constrained optimization

- Experience with complex statistical analysis

- Knowledgeable in biochemistry and interpretation of biological experiments

- Experience with deep learning and deep learning libraries (e.g. TensorFlow)

- Experience consulting on scientific projects or working within a scientific team

Corteva Agriscience™, the world’s first dedicated agriculture start-up, serves to enrich the lives of those who produce and those who consume, ensuring progress for generations to come. Our employees fulfill this purpose everyday by building/participating in an inclusive culture where we encourage each other to stay curious, think differently, act boldly and do what's right for our customers, our co-workers, our partners and our planet. With over 20,000 team members from 130 countries, innovating in 140 world class R&D facilities, we have the resources, leadership heritage and partner ecosystem to make a meaningful impact now and into the future.

**APPLY**