Description

Cotiviti is currently looking to add a Artificial Intelligence Operations (AIOps) engineer to join a revolution in Healthcare Technology and build and support value-oriented, production level machine learning solutions. With access to dedicated on premise and cloud based big data solutions, the team can work with a vast amount of structured and unstructured data including claims, membership, physician demographics, medical records and others to begin to solve some of the most pressing healthcare issues of our time.  As an AIOps engineer at Cotiviti you will be working at the intersection of machine learning, DevOps, and data engineering and given the opportunity to work directly with a team of healthcare professionals including analysts, clinicians, coding specialists, auditors and innovators to set aggressive goals and execute on them with the team. This is for an ambitious technologist, with the flexibility and personal drive to succeed in a dynamic environment where they are judged based on their direct impact to business outcomes.

**Responsibilities:**

As an AIOps engineer within the Operational Artificial Intelligence team you will be responsible for defining processes to make machine learning (ML) development and operations more reliable and productive using existing AI solutions. You will work as part of a team and will be responsible for managing and monitoring production ML systems for their operations, performance and effectiveness. You will be expected to follow processes and practices that allow for scalable deployment of ML models and solutions to production that automate various stages of machine learning life cycle from data collection, preparation, transformation, train, validation, serve and monitor.

* Design and build scalable data transformation and machine learning pipelines and workflows for production deployments.
* Work closely with Data Scientists and Engineers to set and build policies, practices and governance for systematically managing machine learning and artificial intelligence solutions throughout their life cycle.
* Iterate on ML processes to produce tools that make every stage of the modeling workflow — from annotating data to deploying and monitoring models — robust, auditable, and usable
* Work with ML engineers to develop monitoring systems that detect performance issues in deployed models.
* Collaborate with integrating partners to identify common needs and develop well-architected and scalable infrastructure.
* Implement best practices on top of automated frameworks for unit, integration, end-to-end, smoke and other testing approaches.
* Work with Data Scientists, Engineers and Operations for deployment of ML models to production and support them in monitoring model performance.
* Collaborate with data science and engineering teams to support their projects.
* Participate in knowledge sharing sessions to bring new insights and technologies to the team.
* Participate in design sessions to continuously develop and improve the Cotiviti machine learning platform
* Provide End to End value-based and repeatable batch and real time pipeline solutions, including data pipeline, model creation and monitoring for end user consumption.

**Requirements:**

**Functional Programming:**Ability to work with, understand and create object oriented/functional programming solutions using modern application frameworks.

**Machine Learning:**Basic understandingand working of a variety of machine learning algorithms and their use cases. Ability to understand various metrics and outcomes of a ML model.

**Big Data Analysis:**Strong ability to manage and analyze data in a Big Data environment using a variety of scripts, potentially including but not limited to Scala/Spark and Python as well as Cloud based ML/AI capabilities.

**Reasoning and Problem Solving:**Ability to actively and skillfully conceptualize, apply, analyze, synthesize, and/or evaluate information gathered from, or generated by, observation, experience, reflection, reasoning, or communication, as a guide to belief and action

**Consulting:**Demonstrated ability to make and gain acceptance of data-driven recommendations made to business owners. Strong ability to appropriately summarize and effectively communicate complex concepts & varied data sets to inform stakeholders, gain approval, or prompt actions; Applies to multiple audiences ranging from the analyst to executive level; Includes oral & written communication and multimedia presentation.

**Business Knowledge:**Ability to learn the tenets of healthcare insurance and apply this knowledge to the development & evaluation of new initiatives and support the team strategy towards best practices.

**Financial Analysis:**Ability to learn and understand to generate and evaluate healthcare utilization, unit cost and medical cost trends. This includes understanding levers that effect healthcare cost, such as contracting, networks, policies, benefit structures, and product design. Ability to draw conclusions and make recommendations based on financial data

**Minimum Qualifications**

* Bachelors degree in relevant discipline (Computer Science, IT) or commensurate professional work experience
* 0-2 years experience developing IT applications.
* Knowledge of working in Big Data environments
* Ability to code in Spark/Scala or Python
* Experience with SQL, ability to write SQL queries to efficiently extract data from relational databases
* Ability to work independently as well as collaborate as a team
* Flexibility to work with global teams as well geographically dispersed US based teams
* Professional with ability to properly handle confidential information
* Be value-driven, understand that success is based on the impact of your work rather than its complexity or the level of effort
* Ability to handle multiple tasks, prioritize and meet deadlines
* Ability to work within a matrixed organization
* Proficiency in all required skills and competencies above

**Additional Beneficial Requirements**:

* Experience in using machine learning tools to develop production strength models and model pipelines including, but not limited to: Pandas, NumPy, scikit-learn, PySpark, Hive, Impala, Oozie/AirFlow
* Knowledge or experience of DevOps lifecycle tools like GitHub/GitLab/BitBucket, Jenkins, Jira
* Experience with Docker and Kubernetes.
* Familiarity with Kafka and Lenses.
* Experience or knowledge of the health insurance industry in the U.S.