Data Scientist:

Are you passionate about Big Data and Data Science? Do you deal with data set in the size of Peta Bytes (PB) with large scale Hadoop cluster? You would be working on developing big data solutions for array of structured and unstructured data sets and deployed on cloud leveraging Data science techniques. The ideal candidate will be a seasoned hands-on Data scientist who enjoys fast-paced environment, is a self-starter and have excellent track record of delivering enterprise scale big data solutions.

Apply your machine learning skills to the big data solutions! This is a unique opportunity to use data at scale to create and deliver AI products that improve Synopsys solutions. We’re looking for a smart, driven Machine learning scientist in the Synopsys Research organization to work on state of the art, scalable, and self-learning systems for Open Source and Security solutions. The major duty is to help develop machine learning systems using in-production data, as well as develop tools to enable decision making. You will become a domain expert in open source, vulnerability detection, and license compliance.

Responsibilities:

- Creating and organizing large data source for training machine learning models for vulnerability and licenses information.
- Hands on experience developing supervised and unsupervised machine learning algorithms (regression, decision trees/random forest, neural networks, feature selection/reduction, clustering, parameter tuning, etc.), using relevant programming languages (Python, PySpark, Scala, Java, C++, C#, C, etc.), mathematical/statistical/Client languages and platforms (R, H2O.ai, Octave, Matlab, Weka, SAS, etc.) and big data tools and languages (Spark, MapReduce, SQL, Hive, etc.).
- Advanced knowledge in model evaluation, tuning and performance, operationalization and scalability of scientific techniques and establishing decision strategies. Experience in evaluating and making decisions around the use of new or existing tools for a project.

Requirements:

- Master’s degree in Computer Science or Data Science
- 2+ years for Data scientist experience
- Experience with TensorFlow, Keras, Theano, CUDA, and/or DSSTNE
- 3+ years of strong general programming experience (Java, Python)
- 3+ years for experience with SQL
- Experience with natural language processing
- Experience building and delivering complex systems that leverage various machine learning algorithms or technologies that integrate well with other organization-wide systems and can scale effectively.
- Knowledge of software design patterns
- Experience working with extremely large datasets
- Experience building and traversing graphs
• Strong aptitudes in data-structures and algorithms
• Must have excellent analytic and problem solving skills

About the Synopsys Software Integrity Group

Synopsys Software Integrity Group helps organizations build secure, high-quality software, minimizing risks while maximizing speed and productivity. Synopsys, a recognized leader in application security, provides static analysis, software composition analysis, and dynamic analysis solutions that enable teams to quickly find and fix vulnerabilities and defects in proprietary code, open source components, and application behavior.

With a combination of industry-leading tools, services, and expertise, only Synopsys helps organizations maximize security and quality in DevSecOps and throughout the software development life cycle. For more information, go to www.synopsys.com/software.

Synopsys considers all applicants for employment without regard to race, color, religion, sex, gender preference, national origin, age, disability, or status as a Covered Veteran in accordance with federal law. In addition, Synopsys complies with applicable state and local laws prohibiting discrimination in employment in every jurisdiction in which it maintains facilities. Synopsys Inc. also provides reasonable accommodation to individuals with a disability in accordance with applicable laws.