**Machine Learning Scientist**

The Selection Monitoring team is responsible for making the biggest catalog on the planet even bigger. In order to drive expansion of the Amazon catalog, we use machine learning and cluster-computing technologies like MapReduce, Spark and Hive to process billions of products and algorithmically find products not already sold on Amazon. We work with structured and unstructured content such as text and images and apply algorithms like deep learning, computer vision, NLP and image processing. The role demands a high-performing and flexible candidate who can take responsibility for success of the system and drive solutions from research, prototype, design, coding and deployment.   
  
  
We are looking for Applied Scientists to tackle challenging problems in the areas of information retrieval at internet scale using data science and distributed systems. You should have depth and breadth of knowledge in text mining, information retrieval and machine learning. You should also have programming and design skills to manipulate unstructured data and systems that work at internet scale.  
  
  
You will encounter many challenges, including

* Scale (build models to handle billions of pages),
* Accuracy (extreme requirements for precision and recall),
* Speed (generate predictions for millions of new or changed pages with low latency),
* Diversity (models need to work across different languages, market places and data sources)

You will help us to

* Build a scalable system which can algorithmically identify relevant sources and retrieve information from world wide web,
* Automatically extract product information from unstructured data using machine learning to augment the catalog
* Intelligently classify product information from the web using predictive analytics.

**Major responsibilities**

* Develop machine learning and analytical techniques for intelligent information retrieval and classification system.
* Design, develop and deploy highly scalable machine learning models.
* Work along with software engineers for the model implementations and new feature creations
* Work closely with business owners and operations teams to optimize and fine tune various business operations using machine learning techniques.
* Mentor other engineers in the use of ML techniques

**Basic Qualification:**

* Bachelor’s/Master Degree in Computer Science with advanced degrees preferred.
* 5+ years of hands on experience in building machine learning systems for large data sets
* Strong skills in problem solving, programming and computer science fundamentals
* Expertise in using Python, Java / C++, or other programming languages, as well as with R, Matlab or similar machine learning tools

**Preferred Qualification:**

* MS / PhD, specialized in Information Retrieval and Machine Learning
* Experience in designing and implementing information retrieval, web mining and neural network and other classification algorithms.
* Big thinker that can take broad visions and concepts and develop structured plans, actions and measureable metrics and then execute those plans.