Data Scientist – Transportation

Coupang is one of the largest and fastest growing e-commerce platforms on the planet. We are on a mission to revolutionize everyday lives for our customers, employees and partners. We solve problems no one has solved before to create a world where people ask, "How did we ever live without Coupang?" Coupang is a global company with offices in Beijing, Los Angeles, Seattle, Seoul, Shanghai, and Silicon Valley.

Job Overview:

Coupang's extensive logistics system is composed of hundreds of large and small logistics nodes, and there are tens of thousands of possible connections between each node. Through this network, more than 1 billion packages are shipped to each household a year.

Your main focus will be to analyze the opportunity and develop models, algorithms, simulations, and experiments that bridge operational needs with strategic vision. You will learn current process and finds inefficiencies that may occur in logistics package flow and proposes and applies novel methodologies to improve the network speed, cost and customer delivery experience. To accomplish this, you will be able to actively communicate with various teams as a partner and be able to clearly and easily explain or educate your analysis results and solutions to technical and non-technical partners.

Key Responsibilities:

- Provide analysis using optimization and machine learning models to improve logistics processes and decisions.
- Understand the capabilities and limitation of existing algorithms and models and evolve them to satisfy future requirements.
- Provide technical guidance in data processing, optimization, prediction, and experimentation methods and models.
- Build and validate prototypes to demonstrate the benefits from proposed changes to decision systems and operational process.
- Work in a multi-functional team (engineers, product managers) to deliver the solutions on critical business goals.

Qualifications:

- Ph.D., MS or Bachelors degree in, Statistics, Machine Learning, Computer Science or other quantitative field. (If M.S. degree, a minimum of 1+ years of industry experience required and if Bachelor's degree, a minimum of 3+ years of proven experience required)
- Knowledge of underlying mathematical foundations of statistics, machine learning, and analytics.
- Experience formulating linear, convex, and nonlinear optimization problems.
- Experience with exploratory data analysis, statistical analysis and testing, and model development.
- Strong experience using Python (preferred) or R and SQL/Spark.
- Experience in building and evaluating algorithms and optimizing for performance in production.

Preferred:

- Great interpersonal skills, organized, able to multitask and be a great teammate.
- Enjoy reading academic papers and implementing experimental systems.
- Experience in Bayesian inference, Reinforcement learning, Linear relaxation and Monte Carlo simulation.
- Experience in Logistics/Supply Chain, or related businesses.