Job Description Example: Director of Data Science

Yoh is seeking a highly-skilled **Director of Data Science** to join our Agricultural client here in Saint Louis, Missouri. Our client's goal is to change the way we eat and the way food is grown. This role is ideal for someone with a strong Machine Learning background and with prior successful leadership experience.

Position: Director of Data Science
Hours: 8 AM - 5 PM, Monday – Friday
Industry: Agriculture
Location: Saint Louis, MO (must be local or open to relocating)
Type: Direct Hire

RESPONSIBILITIES

- Lead a team of data scientists to develop state-of-the-art predictive models impacting our client's business
- Hire and develop team members
- Collaborate with internal clients
- Identify opportunities

REQUIREMENTS

- PhD in Machine Learning or related field
- Eight plus years' experience applying machine learning, deep learning, reinforcement learning and other artificial intelligence methods to solve business problems across multiple domains and business objectives
- Prior leadership experience
- Prior experience leading complex projects
- Fluent in Python and Cloud infrastructure
- Experience with CUDA, Git, Docker, GPU clusters
- Genomic and biological data experience

For more information, please reach out to Caitlin.Noll@Yoh.com

Resume Example: Director of Data Science

SUMMARY

- Data Science leader with a track record of leading dev. of cutting-edge analytics solutions
- Ability to work with large cross-functional teams across the enterprise to deliver business value
- 4+ years of people management experience that includes hiring, onboarding, mentoring and developing data scientists
- Actively involved in university outreach, mentoring interns, cloud migration, IT collaboration, Data Science Platform evaluation/licensing and promotion of data science best practices.

SKILLS

Domain expertise: Decision Science, Artificial Intelligence, NPV/DCF Analysis, Statistical Modeling methods, Graph Theory, Network Design, Simulation Methods

Programming & Scripting Languages: Python, R, C++, GAMS/CPLEX, MATLAB, JAVA, FORTRAN, BASIC, LISP, SAS JMP, SQL, G2, BATCH/SHELL

EXPERIENCE

Company Name   City, State   Timeframe of Employment
Data Science Team Lead
- Identified data science projects that enable optimal use of personnel, equipment and capital resources to improve efficiency and reduce cost for field and testing operations network.
- Hired and lead a team of 7-11 Data Scientists.
- Lead Development of an application backed by a MILP optimization model.
- Lead Development of a hybrid machine learning + numerical optimization model.
- Lead Development of Artificial Intelligence Platform for prescriptive germplasm selection for pre-commercial advancement stages.
- Lead simplification of data science tech stack by migration of all models.
- Lead development of company's (SaaS) platform in coordination with Enterprise IT.
- Active in external data science networking events, university outreach and promotion of application of data science in Ag industry.
- Leading weekly paper review session within my team since 2018, where we review research papers focused on new developments in data science to broaden our horizons

Company Name   City, State   Timeframe of Employment
Senior Data Scientist
- Developed a crew routing model that enabled 35% cost reduction in collection of field notes.
- Developed a planting density prescription model that allowed prescriptive product placement of corn hybrids customized to grower's field conditions (NPV ~ $35M).

EDUCATION

Accredited University
MS & PhD, Chemical Engineering

Institute Name
Bachelors in Chemical Engineering, *Minor in Industrial Engineering*