



Data Scientist, Innovation

541 N. Fairbanks, Chicago, IL

Full-time

Job Shift: Day Job (1st)

Company Description

At Northwestern Medicine, every patient interaction makes a difference in cultivating a positive workplace. This patient-first approach is what sets us apart as a leader in the healthcare industry. As an integral part of our team, you'll have the opportunity to join our quest for better healthcare, no matter where you work within the Northwestern Medicine system. At Northwestern Medicine, we pride ourselves on providing competitive benefits: from tuition reimbursement and loan forgiveness to 401(k) matching and lifecycle benefits, we take care of our employees. Ready to join our quest for better?

Job Description

The **Data Scientist** reflects the mission, vision, and values of NM, adheres to the organization's Code of Ethics and Corporate Compliance Program, and complies with all relevant policies, procedures, guidelines and all other regulatory and accreditation standards.

Northwestern Medicine, Information Services is a trusted partner driving high-value solutions, transforming healthcare.

We are a culture motivated to deliver innovative solutions and committed to supporting the relentless pursuit of better medicine by providing exceptional service to our patients, customers, and guests. In order to support our patients first mission, our team goes to extraordinary lengths to ensure that our system work together seamlessly.

Northwestern Medicine understands that technology is an integral role in moving healthcare forward, Information Services strategically supports these goals by:

- Enabling digital solutions by leveraging capabilities such as AI, automation, and rollout of advanced cyber controls that support digital transformation strategies
- Implementing advanced technologies in clinical and administrative areas
- Further develop end user support model to help enhance modern infrastructure

Responsibilities:

- As a member of the Data Science team, you will work with stakeholders to design, build, and evaluate solutions that solve business and clinical problems within the organization. You will use data, statistics, and machine learning tools to construct solutions that meet the requirements of the problem and deliver those solutions to make a tangible impact. Bringing a product mindset and technical acumen, you will design solutions that deliver value and can be maintained. We do not just build models; we collaborate with experts to understand and solve problems.

Qualifications

Required:

- Bachelor's degree or equivalent experience in CS, Engineering, Math, Physics, or a related field
- At least 3 years of experience with machine learning with a focus on model building, analysis of outcomes, and model deployment into usage.
- Experience defining tasks, managing projects, and delivering on time
- Strong coding skills in general purpose programming languages like Python or R.
- Experience with machine learning algorithms and frameworks like scikit-learn (sklearn) or SparkML for building and evaluating models
- Familiarity with software engineering principles around testing, code reviews and deployment
- Strong understanding of SQL for data manipulation and extraction from databases
- Strong problem-solving skills with the ability to analyze complex problems, break them down into manageable tasks, and develop effective solutions
- Ability to work effectively in interdisciplinary teams, including clinicians, to understand their needs and translate them into data-driven solutions
- Stakeholder management skills with experience building and growing relationships with stakeholders to ensure alignment and successful implementation of data-driven solutions
- Continuous learning mindset with a willingness to stay up to date with the latest advancements in data science and healthcare, and actively seek opportunities for professional growth and development
- Knowledge of feature engineering and selection methods to improve model performance
- Proficiency in using GitHub/Azure DevOps for version control to manage code repositories, track changes, collaborate with team members, and maintain version control for data science projects

Preferred:

- Master's degree or equivalent experience in CS, Engineering, Math, Physics, or a related field
- Experience running projects from inception to deployment. Familiar with the lifecycle of product development
- Experience with deep learning frameworks, such as PyTorch, for building and training neural networks
- Knowledge of Natural Language Processing techniques and libraries, such as NLTK or spaCy, for text analysis and processing
- Familiarity with Computer Vision concepts and frameworks, like OpenCV, for image analysis and object detection
- Experience using cloud platforms like Azure for scalable data processing and model deployment
- Domain knowledge in healthcare. Understanding of healthcare terminology, workflows, and challenges, enabling effective collaboration with clinicians and healthcare professionals
- Systems level thinking. Ability to think about how a solution will be used and identify other components that need to be built or integrated
- Product mindset. Able to design for solving the current problem reliably, but also so the solution can be applied to other problems. Design systems so they can be maintained

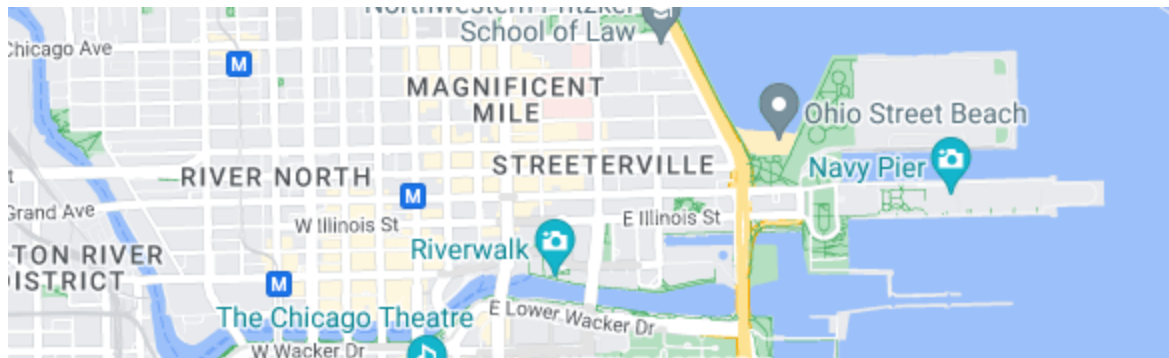
Additional Information

Northwestern Medicine is an affirmative action/equal opportunity employer and does not discriminate in hiring or employment on the basis of age, sex, race, color, religion, national origin, gender identity, veteran status, disability, sexual orientation or any other protected status.

If we offer you a job, we will perform a background check that includes a review of any criminal convictions. A conviction does not disqualify you from employment at Northwestern Medicine. We consider this on a case-by-case basis and follow all state and federal guidelines.

Job Location





[Cookies Settings](#)

Powered by

SmartRecruiters (Data Processor)

[Privacy Policy](#) and [Terms of Use](#)