Imaging Data Scientist I

Philadelphia, PA, US, 19146

Job Type:
LOC_ROBERTS-Roberts Ctr Pediatric Research Req ID: 79321
Shift: Days
Employment Status: Regular - Full Time

Job Summary
An Imaging Data Scientist I position is available at the Center for Data Driven Discovery (D3b) at the Children’s Hospital of Philadelphia (CHOP). The main responsibility is to facilitate and perform large-scale imaging processing and basic biostatistical analysis on multidimensional data in pediatric brain tumor patients. The Imaging Data Scientist I works under the supervision of senior imaging scientists. We will highly value the ability and willingness to learn rapidly and to adapt to new technologies beyond your current skills and expertise.

Job Responsibilities

- Implement computational algorithms and experiments for test and evaluation; interprets data to assess algorithm performance.
- Develop high-quality code implementing models and algorithms as application programming interfaces or other service-oriented software implementations.
- Participate in communication of research methods, implementation, and results to varied audience of clinicians, scientists, analysts, and programmers.
- Work closely with applications research group to translate models and algorithms into engineered production applications.
- Contribute to manuscript writing for results publication, authors abstracts, and presents at professional conferences.

Required Education and Experience
Required Education: Bachelors in Analytics, Data Science, Statistics, Mathematics, Computer Science or a related field.

Preferred Education, Experience & Cert/Lic
Preferred Education: Masters in Analytics, Data Science, Statistics, Mathematics, Computer Science or a related field. Non-degree graduate coursework such as a graduate certificate in Analytics, Statistics, or Data Science preferred.

Preferred Experience: At least one (1) year of experience with progressively more complex data science, applied statistics, machine learning, or mathematical modeling projects

Additional Technical Requirements
- Strong collaboration skills, excellent communication skills.
- Strong experience with implementing statistical analysis, as well as an
understanding of analytics as applied to images, -omics or to integrated data sources

- Experience with analysis of clinical images (QC, preprocessing, segmentation and registration) using state of the art methods.
- Experience with at least one programming language (preferably Python, and/or MATLAB) and also modern large scale database creation and queries.
- Experience implementing reproducible research practices like version control and literate programming.
- Knowledge of medical imaging file formats, DICOM metadata editing, and DICOM file queries.
- Strong skills and experience with Linux, command line interface, and scripting for development of image analysis data pipelines and implementation of available imaging APIs.
- Experience with technologies required to undertake analyses on large data sources or with computationally intensive steps.

All CHOP employees who work in a patient building or who provide patient care are required to receive an annual influenza vaccine unless they are granted a medical or religious exemption.

Children's Hospital of Philadelphia is committed to providing a safe and healthy environment for its patients, family members, visitors and employees. In an effort to achieve this goal, employment at Children's Hospital of Philadelphia, other than for positions with regularly scheduled hours in New Jersey, is contingent upon an attestation that the job applicant does not use tobacco products or nicotine in any form and a negative nicotine screen (the latter occurs after a job offer).

Children's Hospital of Philadelphia is an equal opportunity employer. We do not discriminate on the basis of race, color, gender, gender identity, sexual orientation, age, religion, national or ethnic origin, disability or protected veteran status.

VEVRAA Federal Contractor/Seeking priority referrals for protected veterans. Please contact our hiring official with any referrals or questions.

CHOP Careers Contact
Talent Acquisition
2716 South Street, 6th Floor
Philadelphia, PA 19146
Phone: 866-820-9288
Email:TalentAcquisition@email.chop.edu