FATHOMX

Job Description for Research Fellow

About FathomX

FathomX is a Digital Health AI spin-off company from the National University of Singapore and National University Health System and is the brainchild of Dr Mikael Hartman (Breast Cancer Surgeon at NUH) and Dr Feng Meng Ling (Assistant Professor at the Saw Swee Hock School of Public Health). Our flagship product, FxMammo, is an AI Assistant that significantly improves the screening procedure for mammograms by enhancing both the efficiency and accuracy of screening processes.

The roles & responsibilities and requirements of the candidate are as listed below:

Roles and Responsibilities

- Work with Chief Technology Officer and Principal Software Engineer to develop AI Medical Imaging products, algorithms and systems
- Lead AI Team for specific product lines and ensure compliance with regulatory standards, timelines and compliance
- Build and hire a team for AI Research in the specific product line
- Apply and develop machine learning and AI technologies to solve healthcare challenges raised by customers and collaborators
- Handle healthcare data in compliance with industry standards which include managing, extracting and pre-processing data
- Work with various collaborators including data providers, annotation partners, healthcare institutions and customers to manage resources related to AI Development
- Sit in high-level meetings to ensure that project development timelines and schedules are on time

Required personal skills:
1. An independent and self-driven worker and a fast learner
2. Well-organized and has an eye for details
3. Excellent written and verbal communication skills
4. Ability to work effectively with colleagues to achieve team goals
5. Leadership skills to inspire colleagues to achieve desired tasks

Essential technical skills:
1. Excellent academic record
2. Knowledge and experience in statistical analysis or machine learning
3. Programing language: Python or R or C++

Good proficiency and experience in the following areas is a plus:
1. Experience with the PL-SQL/Trans-SQL
2. Knowledge and experience in GPU-based computation
3. Strong in Mathematics
4. Strong foundations in machine learning
5. Candidates with a strong publication record in the field of machine learning are preferred

The successful applicants are expected to possess at least the PhD Degree in Computer Science, Engineering, Mathematics and preferably with relevant experience