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| Host Employer: | FathomX PTE LTD |
| Internship Position: | R&D intern |
| Industry | Pharmaceutical/ Medical/Health |
| Department: | R&D |
| Duration: | Between early May to end Aug (minimum 10 weeks internship) |
| Internship Location: | ASEAN |
| Job Code: | A186c |
| Company Website: | www.fathomx.co |

FathomX Pte Ltd, a Singaporean enterprise, originated from the National University of Singapore (NUS). Our mission is to revolutionize breast cancer diagnostics through artificial intelligence. Our flagship product, FxMammo, leverages advanced AI technology to enhance mammogram screenings, significantly reducing false positives and negatives. This breakthrough improves the clinical workflow, enabling faster and more accurate assessments, which is vital in the early detection and treatment of breast cancer.

Job Summary

Collaborate with clinical and research teams on data collection, management, and analysis for clinical studies. Conduct and evaluate machine learning research, document findings, and assist with software prototyping. Support engineering teams in product development, deployment, and identifying actionable insights for improvement.

Related Disciplines

FHSS

Key Duties and Responsibilities

Job Requirements

- Work with a team in clinical research. These include coordinating with clinical collaborators, clinical data collection and management, data cleaning, primary data analysis and visualization, reporting, etc.
- Works with the research team in research development. These include: *conduct scientific research to design, implement, and evaluate novel machine learning algorithms
- Collaborate with other researchers in developing machine-learning algorithms
- Communicate and document the research agenda, progress, and results
- Prepare presentations and technical paper drafts to demonstrate research findings and experimental results,
- Participate in software prototyping and experimental evaluation.
- Work with the engineering team in production development and deployment.

These include:

*Participate in collaboration with a Product Manager and Engineering team to proactively create rules and manage decisions

*Participate in identifying actionable insights, and suggest improvements in the tools and techniques.

Essential Attributes:

Experience developing deep learning models

- Experience performing data extraction, cleaning, analysis and presentation experience with at least one programming language (i.e. Python, R, Java, or C++)
- Experience with scientific computing and analysis packages (such as NumPy, SciPy, Pandas, Scikit-learn, dplyr, or ggplot2)
- Experience with machine learning libraries and packages (such as PyTorch, Caffe2, TensorFlow or Keras)
- Experience with statistics methods (such as forecasting, time series, hypothesis testing, classification, clustering, or regression analysis)
- A strong interest in theoretical and empirical research and in answering hard questions with research
- Proficiency in English
- Willing to learn
- Self-motivated and ability to work independently
- Has a flexible approach to work with the ability to adapt to a fast-paced, ever-changing environment
- Has the initiative and the confidence to start things from scratch

Language Requirements

English, Chinese

Working Days and Working Hours

5 days a week, Monday to Friday, 8 hours per day