Machine Learning and Artificial Intelligence Scientist

Skyhawk Therapeutics is seeking ML/AI data scientists to join our growing team in Waltham, MA.

Skyhawk is committed to discovering, developing and commercializing small molecule therapeutics that correct RNA splicing. We use our novel SkySTAR™ platform (Skyhawk Small molecule Therapeutics for Alternative splicing of RNA) to develop drug candidates for some of the world's most intractable diseases including cancer, neurological conditions, and other therapeutic areas and targets previously considered "undruggable."

Position Overview

Skyhawk is looking for a talented and inspired ML/AI data scientist to join our Bioinformatics team. In this role you will report directly to the Director of Bioinformatics and be responsible for the applications of machine learning to RNA-targeting drug discovery. The primary responsibilities of the role include design, development, and successful implementation of novel machine learning algorithms for high-throughput transcriptomics data. Applicants should be self-starters and excited about the opportunity to operate in a multi-faceted bioinformatics function within a growing, fast-paced company.

Role and Responsibilities (include, but are not limited to):

- Lead research to advance the applications of machine learning to RNA-targeting drug discovery.
- Coordinate the design, development, successful implementation and combination of state-of-the-art machine learning methods to characterize RNA-targeting small molecules.
- Develop novel methods for interrogating high-throughput and high-content multi-omics data.
- Develop machine learning based predictive models for SkySTAR target identification platform.
- Interact with counterparts from HTS assay development and computational chemistry to account for their insights and needs.
- Manage project timelines and schedules of projects with internal personnel and external vendors

Education/Skills/Experience Requirements:

- PhD in Data Science, Computer Science, Bioinformatics, Computational Biology or a related field with background in machine learning.
- Demonstrated experience with large-scale transcriptomics and high-throughput data analysis, machine learning and deep learning, network analysis, and meta analyses.
- Strong programming skills in Python or R. Experience with advanced machine learning frameworks, like PyTorch, Keras, Tensorflow.
- Experience of developing *in silico* approaches for drug activity/target prediction.
- Familiarity with public high-throughput perturbation transcriptomics data (e.g. LINCS).
- Ability to manage multiple projects simultaneously and manage priorities flexibly.
- Excellent written and verbal communication skills and organizational and documentation skills.
- Relaxed and fun attitude that helps good culture building.

To Apply: Please send resume and cover letter to botao@skyhawktx.com

A COVER LETTER IS REQUIRED. Please explain why this job is of interest to you. Please detail your strengths and weaknesses as they pertain to the requirements and responsibilities of this position.