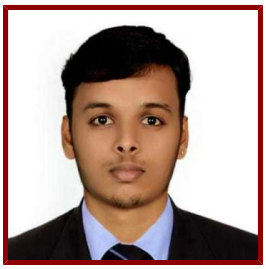
Stanford



Amarnath K R

Affiliate, Genetics

Bio

BIO

Amarnath K R is a computational scientist and deep learning engineer driving breakthroughs in biomedical AI specializing in the fusion of multi-omics data, deep learning, and clinical statistics to tackle some of medicine’s most complex challenges. His current work at Stanford University's Department of Genetics focuses on developing a deep learning framework for cross-modal cell type label transfer by aligning single-cell RNA-seq and proteomics data in a shared latent space. Using autoencoders and a joint contrasitive-based training, he achieves highly reliable annotation of unlabeled proteomics cells with RNA-derived ground truth. This work enables accurate integration of transcriptomic and proteomic modalities for downstream biological discovery and holds promise for expanding cell atlases.

With multiple publications, international collaborations, and an unwavering drive to innovate, he represents a new generation of computational scientists shaping the future of personalized, data-driven medicine. Know more about him at innovatewithamar.com