

Eshan Singh

Date: December 12, 2025

Hiring Committee

Translational Medicine

Incyte Corporation

Wilmington, DE

Dear Hiring Committee,

I am writing to express my strong interest in the Computational Biology and Data Science Co-Op within Translational Medicine at Incyte Corporation. I am currently pursuing my Master's in Data Science at the University of Maryland, College Park, with a strong academic and applied background in machine learning, statistical modeling, and health-focused data analytics. I am highly motivated to apply my data science and AI skills to translational research that directly informs therapeutic and clinical decision-making.

Through my academic training and internships, I have developed hands-on experience building end-to-end analytical and machine learning pipelines using Python, SQL, and modern ML frameworks. My work includes predictive modeling, feature engineering, explainable AI, NLP, and large-scale data analysis. In particular, I have worked on disease prediction systems, health-tech platforms, and clinical-style datasets where biological interpretation, model transparency, and decision impact were critical. These experiences have shaped my interest in applying AI and data science to translational medicine, biomarker discovery, and therapeutic insight generation.

I have experience working with high-dimensional datasets, exploratory and inferential statistics, and visualization tools to support data-driven conclusions. I am comfortable working in collaborative research environments, translating analytical results into clear insights for both technical and non-technical stakeholders. In addition, I have experience with cloud platforms, version control, reproducible workflows, and integrating multiple data sources into unified analytical pipelines, which aligns well with Incyte's focus on scalable analytics infrastructure.

What draws me most to Incyte is the company's commitment to innovative science at the intersection of data, biology, and medicine. The opportunity to contribute to Heme-Onc and Immunology programs while learning from experienced computational biologists and translational scientists is incredibly exciting to me. I am eager to grow my skills in genomic and clinicogenomics data analysis while contributing strong analytical rigor, curiosity, and work ethic to the team.

Thank you for considering my application. I would welcome the opportunity to discuss how my background in data science and health-focused AI can support Incyte's Translational Medicine initiatives.

Sincerely,

Eshan Singh