

## **Statement of Purpose**

I am writing to apply for the Research Associate position at IIIT Delhi. My deep interest in artificial intelligence (AI) and its applications in healthcare has driven me to seek this opportunity to contribute to impactful research. With my strong academic background and hands-on professional experience, I am confident in my ability to support the department's ongoing work and grow as a researcher.

Since March 2024, I have worked as a Software Development Engineer (SDE 1) at FirstWire Apps, focusing on frontend development. My role involves creating responsive and efficient user interfaces using HTML, CSS, and JavaScript. Collaborating with cross-functional teams has not only improved my technical skills but also enhanced my communication and teamwork abilities. These experiences have shaped my ability to approach problems methodically and deliver quality solutions—skills I believe are valuable in a research setting.

Academically, I have a solid foundation in computer science. I earned my Bachelor's degree in Computer Applications from Babasaheb Bhimrao Ambedkar University with a CGPA of 8.32. During this time, I developed a web-based quiz application, which introduced me to real-world programming. Later, I completed my Master's in Computer Applications at Pondicherry University, graduating with a CGPA of 7.35. My project on blockchain technology during this program sparked my interest in emerging fields. Qualifying for the UGC NET exam in 2024 further confirmed my readiness for research.

In recent years, I have become deeply interested in AI and machine learning (ML), particularly their role in healthcare. Technologies like deep learning have shown immense potential in addressing complex problems, such as cancer detection and drug discovery. This interest has inspired me to pursue research that leverages AI to tackle challenges in healthcare.

The opportunity to work with the Department of Computational Biology at IIIT Delhi is exciting because of its cutting-edge work in areas like cancer genomics and computational gastronomy. I am especially drawn to the department's focus on applying AI and deep learning to solve healthcare challenges. I believe my technical background and enthusiasm for learning can contribute meaningfully to the team's research initiatives.

My goal as a Research Associate is to develop a deeper understanding of computational biology and AI-driven healthcare solutions. I am eager to collaborate with experts, support innovative projects, and enhance my skills while contributing to impactful research.

Thank you for considering my application. I look forward to the opportunity to join IIIT Delhi's research community and make meaningful contributions to the field.