

Vatsal has been associated with us since June 2023. He is currently working on a blood group testing kit project. This initiative was launched earlier this year by students at Galgotiya University, guided by various faculty members, including myself. Initially, our students utilized capillary action to develop the product.

Upon joining, Vatsal proposed implementing the lateral flow immunoassay technique, commonly employed in industries such as pregnancy testing kits and next-gen blood group testing kits. An example, the Erycard by Tulip Diagnostics, costs around 13 USD, which is not feasible for the Indian market.

Consequently, we aimed to customize a more affordable version for the Indian market. After months of rigorous work, we achieved our goal. However, we realized that the product was still not cost-effective enough for the Indian market. Eventually, Vatsal proposed a simple yet elegant solution, showcasing his innovative thinking. Details and techniques used in the final product cannot be disclosed as we are in the process of patenting it. Additionally, the incorporation of machine learning was their idea to enhance usability.

Vatsal is now one of the co-founders of M Care and a crucial member of our entrepreneurship club. Their focus is on developing more products for the biomedical industry, particularly self-diagnostic equipment for the convenience of ordinary individuals. India faces significant loss of lives due to delayed diagnostic procedures. Vatsal and the team are taking a small step to make a difference. Although these changes may seem minor, collectively they can have a substantial impact on society, reflecting Vatsal's commitment to contributing positively.

Vatsal possesses extensive knowledge and skills in biology, far surpassing others his age, gained through avid reading of college-level books, which I found impressive during his 12th-grade

studies. Furthermore, his proficiency in Computer-Aided Designing greatly assisted in our product development. He is a promising asset to any institution. Given the right opportunities, he will undoubtedly excel and make us all proud.