

Chapter 9

Conclusions and Future Scope

India is a country with a population of over 1.27 billion people. It is estimated that out of this, 200 million suffer from some kind of disease at any given point of time [6]. On top of the world second largest sick population, a poor health-care funding and lack of R&D in medicine paints a deplorable picture of the prevalent health-care standard in our country.

In such a scenario, our solution to sickle-celled disease is what we believe, an initiative in the right direction. By expediting the diagnostic processes, we not only seek to improve the health individually but also curtail unnecessary industry-wide expenditure involved in long & manual laboratorial work. Furthermore, A.S.C.A.D, if successful as a consumer product, has the potential to open up a gateway to private research and development investment into automation in health-care sector. Such solutions that target the root causes are indispensable in improving the health-care standard in our country.

Looking beyond, this software has greater prospects when it can be optimized to exploit a larger sickle cell database as mentioned above. Optimization can also be done in the way certain pre-defined values in A.S.C.A.D can be generalized to work for a much wider range of input possibilities. However, such modifications would need more knowledge from a medical database, much wider than what is currently available. But on the whole, with an ever increasing influence of digital technologies, we can confidently envision a rising trend of the utility and use of A.S.C.A.D and similar software.