

TECHNOLOGY DEVELOPMENT PROGRAM HEALTHTECH



Medyvision

AI enabled portable slit lamp-smartphone devices for ophthalmological examination

Issue Being Addressed

- ▶ Traditional Slit-lamp biomicroscopy is cumbersome, costly, and requires complex table-mounted setups
- ▶ The limitations of diagnostic accessibility in rural areas, remote industries, non-ambulatory patients, and those unable to maintain a physical posture hinder the identification of potentially blinding causes of avoidable blindness in these populations

Key Feature of the Technology/Product /App Which is Being Developed

- ▶ A portable, lightweight, and cost-effective device capable of diagnosing and grading multiple ocular diseases, while also enabling telemedicine through photo-documentation of disease progression
- ▶ Incorporating artificial intelligence enabled software with portable slit lamps which can be used with any smartphone

- ▶ No dependency on flashlight of smartphone, has inbuilt light source and blue & green filters

Impact & Benefit to The Masses

- ▶ Easy screening of patients with ocular diseases
- ▶ Facilitating accessibility and advantages to rural and marginalised communities
- ▶ Early risk prediction reduces the pool of avoidable blindness and thereby enhances ocular health

Team

- ▶ PI: Dr. Divya Vakharia, MBBS, MS Ophthalmology, FRCS Glasgow, Fellow in Cornea & Cataract Services, Co-founder Medyvision
- ▶ Co-PI: Dr Vishesh Kasliwal, MBBS, MBA, Co-founder Medyvision & Medyseva Parul Institute of Medical Sciences & Research

Targeted Customers & End Users

- ▶ Hospitals and healthcare providers
- ▶ Ophthalmologists, optometrists
- ▶ Telemedicine professionals

Commercialization Status

- ▶ Collaboration with medyseva for product development and deployment
- ▶ Prototype is developed

Lab to Market Program