

## Healthcare: Devices

# Development of deep learning models for early screening of ovarian cancer through detection and classification of ovarian lesions by the variations in their sonological characteristics

### APPLICATION

Mobile-app based non-invasive solution for early screening of ovarian abnormalities which may be an indicator of ovarian cancer

COMPANY NAME	TECHNOLOGY READINESS LEVEL (TRL)	INTELLECTUAL PROPERTY
ASPIC Innovations Pvt. Ltd.	5	Applied

### FOUNDER'S NAME

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### PROBLEM ADDRESSED

- High incidence of Ovarian Cancer cases in India
- Most cases are diagnosed at a very late stage leading to a difficult and expensive clinical pathway coupled with high mortality rates
- Prevalence of Inter and Intra observer diagnostic errors in radiology of more than 10%
- Lack of automated non-invasive diagnostic aid(s) which can be deployed for running screening programs to detect and classify ovarian lesions.
- Lack of holistic digital solutions which can help women in the higher risk peri and post-menopausal age groups manage, monitor and address their informational and actionable needs related to health and wellness.

### ABOUT THE TECHNOLOGY

The technology comprises of a cloud-hosted software solution available via a mobile application, which empowers women to access a host of information related to menopause, menopausal symptoms, the risks to health, the need for periodic screening etc. Users will also be able to create personal accounts which will provide them post-login access to additional features like Symptom tracker, Yoga exercises, Podcasts, Diet recommendations, Ayurvedic recommendations, Uploading and storing personal health records and investigation reports, AI based aids for personal wellness and health monitoring and management.

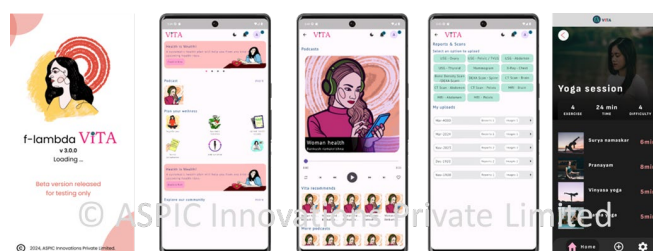
A key component of the product is an AI model which seeks to analyze medical images (like USG images of the Ovary) uploaded by users to identify potential abnormalities as well as track variations over time across investigative and imaging results.

There is also an accompanying device which can help in running ovarian cancer screening programs in low or no network areas.

### FUNDS RAISED/ACHIEVEMENTS

- CCD-based funding from Startup India Seed Fund Scheme
- BIG Grant (CALL 20)

### PRODUCT IMAGE



### USP

- Unique non-invasive mechanism for screening of ovarian abnormalities
- Easy to use and location agnostic deployment
- Unique 360-degree approach to monitoring and managing health and wellness for peri and post menopausal women
- Curated wellness plans based on user symptoms, ailments and wellness targets

### END USERS/CUSTOMERS

- Common citizens
- Doctors
- Healthcare workers
- Clinical / Healthcare establishments
- Pharma companies