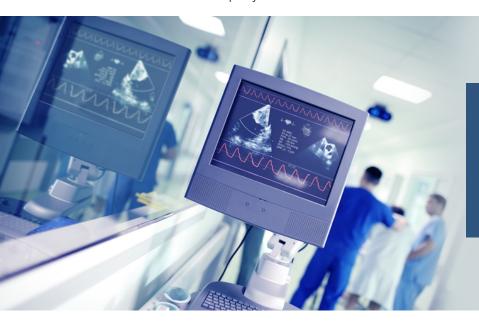


Client Success Story



Aiding Effective Prognosis
& Clinical Outcomes By
Improving Accuracy Of
Echocardiogram Interpretations



Client Business Description

Eko.Al is a Denmark based Healthcare Intelligence firm committed to leveraging Machine Learning for automating assessment of medical images as a supplemental decision support tool for Clinicians. This will be used for early detectionand effective treatment of heart disease

Challenge

- Detecting Heart Ailments with predictable accuracy from DICOM images is dependent on human assessment which is a very subjective skill and depends purely on the abilities of the respective Doctor.
- Constant visual assessment of large number of images drains the minds and thus it is not possible to keep pace with volumes.

Idea

- Create an automated solution that detects heart ailments and predicts diseasesfrom the DICOM images with the help of Artificial Intelligence.
- ♦ Develop a DICOM image editor to help doctors effectively visualize DICOM images.
- ♦ Use a PACS server to retrieve large number of DICOM images and enable mass assessments.

Our Solution

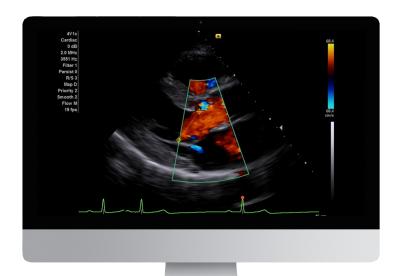
Mobile Pundits developed astandalone product called Eko.Al that was designed to handle large number of DICOM images. The WPF based cross platform application interfaced with abstracted Al Web Service Interfaces to detect the exact disease and help doctors to provide a viable treatment of heart disease. The software could run on Win 7 onwards, iPhone, Android, and AppleOS.

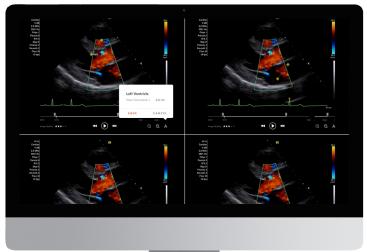
♦ Using WPF, we leveraged the capabilities of Java Script to enable this cross platform implementation and at the same time have native solution on respective platforms using WPF (To ensure compatibility with Win 7 versions and onwards), & Xamarin (for iOS/Android/MacOS).

- Eko.Al has features such as, DICOM image (echocardiogram) editor, interfacing with PACS server for volume handling, and protocols based reports.
- Each report has details in the form of Measurements of various areas identified in a particular DICOM view. These measurements are indicators of patient's health for the doctor.
- ♦ User is able to generate reports according to Protocols.

Technologies Used

- Visual Studio 2017
- WPF
- Angular 5.0.3
- JS DW Viewer (DICOM Image Editor)
- PACS Server Integration
- ♦ Doctors can play with DICOM image to check the patients heart status. Eko.Al provided features like Zoom, Calipers, Line draw etc.All this is as part of single view DICOM editor only. Doctors get the precise and pinpointed information about the ailments.





About Mobile Pundits

Mobile Pundits is an ISO 9001:2008 Certified, leading provider of end-to-end Mobile Development & Testing solutions.

Since over 15+ Years now, Mobile Pundits' expert team has been helping our Clients with:

- Enterprise Mobility Strategy & Consulting
- ♦ Mobile Product Development
- ♦ IoT (Internet of Things)
- ♦ Responsive Web Design & Development
- ♦ Mobile Application Development
- Mobile Application Porting
- ♦ Cross Platform Development
- Mobile Testing

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