Classification of arrhythmia by using deep learning with 2D ECG spectral image representation

Problem statement

User		Needs of the user		Benefits of the user
Cardiologist	needs a way to	Extract more information through Al	so that they	Pointout the patients who die earlier
Cardiologist	needs a way to	To be fully automated	so that they	Read the waveforms speeder
Cardiologist	needs a way to	Have wearable ECG monitor	so that they	Can diagnosis from anywhere
Cardiologist	needs a way to	Low cost ECG	so that they	Save money
Cardiologist	needs a way to	Kardia devices	so that they	E-mail to the person's doctor
Cardiologist	needs a way to	Pacemaker	so that they	more energy & less shortness
Cardiologist	needs a way to	Digital storage	so that they	Reduce paper work
Cardiologist	needs a way to	ECG enabled devices and smart phone apps	so that they	Allow anyone to record 1-6 lead ECG
Cardiologist	needs a way to	Colorful waveform	so that they	Detect cardiac relaxation abnormalities of LVDD
Cardiologist	needs a way to	Faster System with easy diagnosis	so that they	Get immediate information
Cardiologist	needs a way to	Kardia watch with Al	so that they	Record a 30 seconds ECG Strip
Cardiologist	needs a way to	Fingertip	so that they	Cardiology patients and caretakers used