



HEALTHCARE
DATA INSTITUTE

Data
innovation
Program
2018

ARVA

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Develop an automated abnormality detector (diameter and volume) and findings follow-up algorithm to monitor Aortic dilation/expansion

- **Project Leader**

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Patients with aortic aneurysms and dissections are at risk of aortic rupture if the maximum aortic diameter increases rapidly (more than 5mm in 6 months) or if they reach a 55mm diameter. Repeated imaging (CT scan, MRI) is performed to depict such evolution and thus schedule aortic repair.

Our goal is to develop an automated abnormality detector (diameter and volume) and findings follow-up algorithm to monitor Aortic dilation/expansion.

AI will learn to detect the aorta, segment it, label its branches, and perform automatic measurements of previous measurement follow-up (same location) and maximum aortic diameters and volumes.

- **Mentor**

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