

3D Surgery Planning

Objective:

To analyze the technical feasibility of processing computed tomography (CT) and magnetic resonance (MRI) in order to enhance high precision surgeries planning.

Challenge:

Create and design a Machine Learning model for detailed 3D image reconstruction and visualization with the final purpose of assisting the traumatologist surgeons in the planning process of surgeries.

Technologies used:

Javascript (VTK & ITK libraries), ReactJS, Babel, Webpack, NPM, C, Google Cloud, Docker, **Unity**.



Success Case

Digital Health **Innovation**

Objective:

Cloud-based and EHR-agnostic platform uses applied health signals and machine learning to develop, deploy, and sustain actionable clinical insights based on patient medical data as well as socioeconomic factors.

Challenge:

Leveraging analytics, patient health data, and social determinants of health to understand important clinical and socioeconomic relationships, key metrics, and opportunities for impact. Connecting customized social interventions to patient needs and measure value-based outcomes in order to close gaps in care.

Technologies used:

Amazon Web Services (AWS), S3, Cloudwatch, VPC, Okta, Terraform, React, HL7, PostgreSQL



¡THANKS!



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