

Confidential Computing with Ma

1. SGX Coding

2. Main App

Mar Feb **April Implementation** 1. Deeper system design and point out the individual components. 3. NN Code Base tasks -Get introduced to enclave programming 1. Encrypter -CRY and system design. 2. Main App 4. SGX Code Base - SGX 2. init Documentation 5. Documentation - MSC Week -1 MSC - What NN ML - Implement NN Decide on technology Further Research on Modules in enclave? stack and setup CRY -Windows App CRY - C++ file TPM enclaves. Development Intro encryption CLI Module UI - UI Design of CRY - C2 Diagram Encrypter and Main **Encryption Module** App Install Intel SGX SDK C1 Diagram with Visual Studio Test Sample Enclave What modules are inside the enclave? code.

C2 Diagram
Platform backend

achine Learning using Intel SGX



Dev Modules

Design, Docs and Misc. - MSC	Machine Learning module -ML	Encrypt/Decrypt - CRY	SGX Module - SGX
C2 Diagram Platform backend C2 Diagram Encryption Module C3 Diagram Decide on ML algorithm. Decide on ML algorithm. Install Intel SGX SDK with Visual Studio What modules are inside the enclave? Thesis Structure.	Implement NN Identify the bridge Functions Init new Test dataset. Refine NN code into proper directories Split Train Data into multiple files.	Decide on file encyption. C++ file CLI encryption Module C++ file CLI Decryption Module Integrate Encryption CLI to main App	NN as SGX APP design

UI App Module - UI File Encrypter **Encrypted Data** Repo ML View Controller UI Design of Encrypter and Main App

Tech Stack

IDE: Visual Studio 2017 Enterprise

UI Design: Adobe XD

Encryption App:

Encryption: 128 bit AES-GCMKDF: based on SHA-256

• Win32/C++ Application

Work Day Structure

- Update Kanban Board.
- Review TODOs
- · Work on Tasks.
- Review/modify next day's tasks.