C4 Architecture Confidential Computing with Machine Learning using Intel SGX

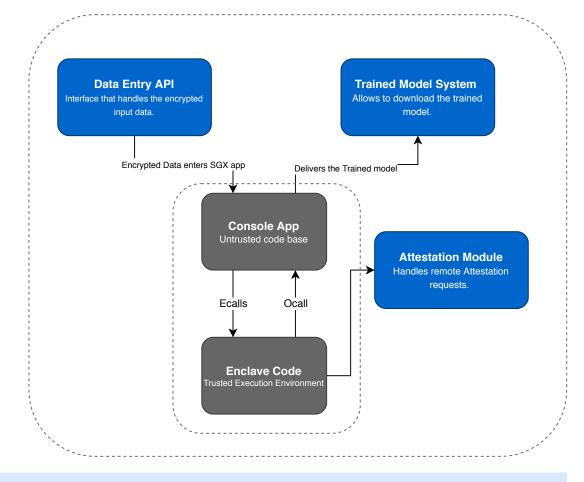
C1 Diagram Data-set 1 Data-set N Different Data Sources Sends Data set to be encrypted **Components** 1. Data sets **Remote Attestation API** 2. Encryption Module **Data Encrypter** Handles remote attestation of the 3. Console App Encrypts the data set. Trusted Code. 4. Enclave code. 5. Remote Attestation Sends encrypted data to the Verifies the authenticity of ML SGX application the HW and hence the trusted code base. **Machine Learning System**

Contains both trusted and untrusted code base.

C2 - Machine Learning System

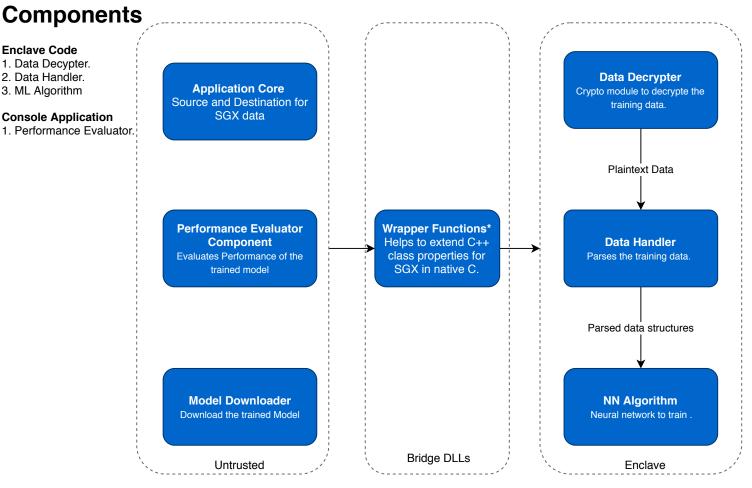
Components

- 1. Data Entry API
- 2. Trained Model System.
- 3. Console Application.
- 4. Attestation Module
- 5. Enclave Code



C3 - Enclave and Console Application

(Neural Network)



^{*} Most of the ECalls are made using wrapper functions.

Class Diagram (Neural Network)