Overall, the project was a success. All core success criteria and one of the extensions were met, and the remaining criteria were thoroughly considered. In its final state, the project contains an investigation into the applicability of HE in ensuring user privacy is preserved when using modern MLaaS surveillance technology. For this, a client-server model allowing data to be homomorphically encrypted using the CKKS scheme and transferred across a network was implemented. Moreover, several background subtraction algorithms were implemented, and more were investigated to attempt to find the limit of HE pertinency. Also, the results of these algorithms were evaluated to compare to traditional algorithms that operate on plaintext data. Furthermore, a bespoke implementation of the CKKS scheme – called MeKKS – was created to increase understanding and highlight opportunities for application-specific optimisations.