

Project 3 Roles:

Roel: Researched which blockchain would be best for completing our project and chose Bitcoin Regtest. Created Accounts/Addresses and generated bitcoin addresses for each Account. Used Python, Numpy and Pandas to validate that each Bitcoin address were valid address and drop all invalid address from Dataframe. Then validated data files with python and pandas by checking the csv of processed data against the original csvs data.

Igor: Setting up AWS instance and RegTest network on localhost, documented process of connecting agents and their config files, filled up and generated blocks with test transactions.

Vinay: Set-up an initial regtest mining server using ubuntu on ec2. Setup bitcoin.conf file to allow json-rpc. Write python code to send rpc commands to node and get response. Write python to recursively extract block (in hex) starting from the latest block to oldest block, and output as a dataframe.

Stephen: Idea man, setting up encryption, Shamir's secret, validation and signing

Borna: Created initial transaction spreadsheet, flow diagram, presentation. Worked with Igor on AWS instance and setting up agents' bitcoin.conf to connect to regtest.