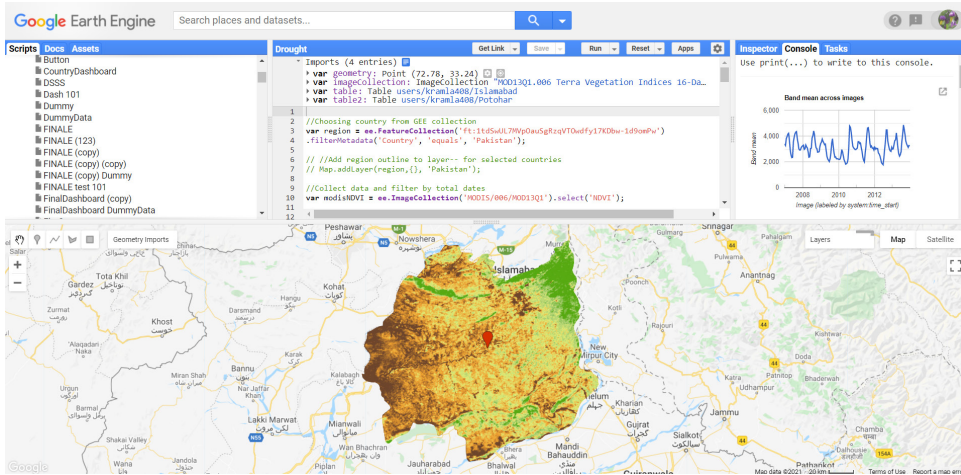


Analysis of big earth sciences data through cloud computing

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Google Earth Engine (GEE) is a cloud-based platform that has revolutionized the field of remote sensing with its high-speed computing power and simple use. It is spread across 66,000 CPUs for parallel computation access to its users. It has a massive catalogue of datasets available for users that were once mined from different sites and has an efficient workbench environment for algorithm developments, processing the datasets, and crowdsourcing. GEE also helps in pixel-based image classification used in a variety of projects and can also run a number of sophisticated algorithms like random forest, regression tree, support vector machine, Naive Bayes, and GMO max entropy.



Biography

Ramla Khan is a Phd student at the Open university of UK, currently working on tree species classifications in urban areas using remote sensing technologies. Before that she worked in an AI lab on three disaster projects (Earthquake, landslides, floods) using machine learning algorithms. Her masters project was on monitoring of droughts on global scale.