Cohort 12 1st Meeting 23/09: Group 18

Chair: Raphi Druion , Minutes: Ben Palay

Minutes:

Prof Estelle: Introduction as to how these meetings will run. Their purpose is to provide aims for the next week, and say whether a group achieved their goals, what the obstacles were that week etc .

Devlan: Network firewall visualisation. Develop program in, assist visualisation for network admin to see changes being made. Done research into a few things, mostly optimising front end. looked into libraries for similar applications, also looked at wits cluster usage.

James : mapping rainbow nation, categorise twitter users into groups and map using sociogram, done by analysing various factors in twitter usage. So far quantified edges, running into performance issues. Done research into the twitter api area. How to get that data and filter it meaningfully.

Joe : track protests using twitter data and api, pull tweets based on hashtags, content etc. Do content and sentiment analysis, data process, plot on SA map. Check level of protests, violence etc. Looked into research at twitter api, data sources for where to find protests. Started research into sentiment analysis.

Kevin: ML and satellite imagery and pattern recognition to identify former lost cities by stones and archaeological remnants to track old settlements. So far just familiarising with tensorflow, research, trying to feed in circular images in order to train model. Built basic classification of images. Set up git etc

Ishmael and Nkosingiphile: develop genotype, cluster red and green files into groups. Aim is to classify genotype. DNA sequencing program. Started with investigation into different genotype models, working on cluster, getting used to it. Studying Rust ways to use read and write files.

Rael and Gia: Implementing low cost sensors in under developed areas, micro based device with air quality sensors to measure air quality. Started with basic air quality monitor. Stored info and time taken on SD card.

Mohammed: Water test strips: app to scan test strips, tell users what optimal chemical composition to add by using ML. Looked at object edge colour detection on the test strips, learning about app development.

Raphi and Ben: Matching a user's description of a face to a labelled image. We started with feature analysis, extracting various features such as eye colour and mouth size.

Tristan: location aware scientific workflows, so far familiarising with cluster, progress with Slurm and Groovy, trying to analyse data and best ways of queuing.

Prof Estelle: The report is what is marked, so even if it doesn't work the way you want, it's important to know why it didn't work, be critical, what could you have done differently etc. Show considerations and weighing of different solutions. Also you should locate project and its context in

current literature. Use wits database. You aren't expected to create new knowledge, but rather how can yours be different or how it works in a particular context.

Prof Scott: Document what you're doing and the thought process. Justify decisions that were made. Do it as you make the decision.

Prof Martin: Start strong-> finish strong. Also document failures.