

## 2021 Final Year Project Definition Form

**Project Title:**

Design a modular process, methodology and practices to collect economic, social, and environmental data in rural areas of Africa.

**Company details:**

- Company Name – Tano AI
- Address -
- Website - <https://www.tano.ai/>

**Company background:**

*Tano AI* is a data science, artificial intelligence, and impact driven company focusing in the social and ecosystem impact space with supporting focus areas in optimisation technology and health technology. The company is based in Pretoria but affords individuals the freedom to work remotely.

**Project description:**

Tano AI aims to bring forward advanced machine learning and artificial intelligence productization in Social and Impact tech, optimisation tech, and health tech across Africa. To aid our exploits, we require the selected student to assist in the improvement of advanced data collection processes, methodologies, and practices with the use of basic to advanced technology, in an environment that provides numerous challenges. The rural environments of Africa pose challenges when attempting to collect data outside the scope of a business or Government. With different types of projects such as elections, agriculture, social projects requiring a mix of data collection ranging from the core data from the project to surrounding data categories such as social data from social media, to weather data, to survey data, and data collected by aspects of technology, etc. The aim of this project is to design a system which can assess a rural ecosystem based on set data requirements and can be implemented through its process to begin the collection of data. It must be applicable to a variety of ecosystems, therefore, modular. Note: This can become a complicated nature due to its potential to expand, thus, good scope needs to be set.

**Industry mentorship:**

Chris Breytenbach (BEng Industrial Engineer (UP))

**Industry mentor contact details:**

Chris Breytenbach, co-CEO

cromulent12@gmail.com

+27 76 185 4490

**Project topic application process:**

Applicants to email their CV's and motivational letters to Chris Breytenbach. Selected applicants will be subject to an interview conducted by Chris and another representative. Application deadline is 17 February 2021.

**Any other relevant information:**

The ideal student should be comfortable with data analysis, process and systems design, simulation modelling, IE technical skills, and should be comfortable working in a team.