



CV_Dr. Kaberi Samanta_08.02.2025 Inbox



 me 3 Jul
to me ▾



CV_Dr. Kaberi
Samanta_08.02...
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 me 3 Jul
to me ▾



----- Forwarded message -----
From: **Sanjay Agarwal** <sanjaywide@gmail.com>
Date: Thu, 3 Jul 2025 at 17:15
Subject: CV_Dr. Kaberi Samanta_08.02.2025
To: Sanjay Agarwal <sanjaywide@gmail.com>

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 **me** 8 Feb
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KAZIHIFAJAT_RESUME Inbox



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From: **Sanjay Agarwal** <sanjaywide@gmail.com>
Date: Thu, 3 Jul 2025 at 17:13
Subject: KAZIHIFAJAT_RESUME
To: Sanjay Agarwal <sanjaywide@gmail.com>

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Extracted_and_preprocessed Map

Inbox

- 

Tanya Gupta

25 Feb

Kindly find the attached jpg you asked for. For reference I have attached the base map also. MAP NO- R0207070_5
- 2
- 

Dhananjay Agarwal

25 Feb

Thank you. Sent from my iPhone On Feb 25, 2025, at 3:01 AM, Tanya Gupta <tanyagupta8942@gmail.com> wrote: <vector_...
- 

Dhananjay Agarwal

25 Feb

to Tanya, dsantanu1989, Samanta, me, kazihifajat92

Hi Tanya:

Thanks for sending me the vector files. Both the methodologies use different approaches to generate the vector outputs and both face similar challenges of "handshakes" of the Bengali Plot Numbers. The distortions by the handshakes manifest in different ways in each of the processes. In mine, it distorts the lines and in the sample you sent me it creates additional branches. By handshakes I mean the Bengali letter touching the wall. My process doesn't use ArcGIS (ESRI proprietary technology) and is 100% homegrown technology using open-source software.

While we can move along the path of ArcGIS and do additional validations, we need to build our product from the ground up. For the time being let's put additional testing in the ESRI route on hold, and focus on the handshake problem. That will give me more rewards for our efforts. Towards that I have created a folder on Google Drive (https://drive.google.com/drive/folders/1qPce1lmR5krKbfSq8C9qc2O8_Goa3d5k?usp=sharing) that contains pairs of file for 11 maps.

Each pair has an isolate_target file and an isolated file. The isolated file has the complete plot numbers where as the isolate_target file has only the Bengali letters touching the boundaries. Both are raster files. I use the isolate_target file in my workflow and the handshakes distort the vector lines.

The problem is how can we remove these handshakes? Let's focus on this problem. This effort will be useful in both the ArcGis process if we decide to use that route at a later time.

Is machine learning the best solution for the handshake problem? One experiment I want to try out is to use CNN tools. My understanding is that for CNN we need noisy and truth data, both, in raster form. We train the model using raster noisy data and truth data. The truth data can come from exporting the Plot layer from the Autocad or shape files of maps already vectorized by our company. The noisy data can come from LM v1.1 program in debug mode. We will run the older files through LM v1.1. This process will help us generate training data very quickly. In this experiment, the output is still a raster file subject to further processing.

- Q1. Please share your thoughts on the proposed experiment?
- Q2. For truth data, can we write a script that can automatically generate raster images of plot boundaries



(no subject) Inbox



me 9 Mar
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 **Kazi H** 26 Feb
to me, ms.islam ▾

← ...

Please find the attached file containing the time taken by each person for map digitization. The maps assigned by Dhananjay Sir are highlighted.

It appears that some individuals are taking an unusually long time to complete the digitization, **possibly intentionally**. However, I am **unable to intervene in this matter**. Based on the current progress, completing all the maps will require another day.

Let me know if you need any further details.

map_sheet_vecto
_time.pdf
 PDF

 **me** 26 Feb
to Kazi, ms.islam ▾

← ...

What I had requested was as follows

For each map's complete digitisation, how much is being taken

We need to track the time taken to complete the entire digitisation comprising 4 steps (S1 , S2 , S3 and S 4

In our MIS the key is total time which is then represented by showing the time taken for all the four steps

I has mentioned that you NEED NOT MAKE ONE SHEET FOR ALL

I had requested that we do one sheet per map and find the total time take for DIGITISATION (comprising 4 steps)

Giving just one data , does give the idea about the complete time

I hope you send the above data by send go time sheets for each map's complete digitisation

Reg

...

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