LGT Impact Fellowship 2020/2021

Impact Report
By Sutapa Bhattacharya

September 2021

Sutapa Bhattacharya (India)

Host organization: Educate Girls

Fellow position: Data Science Engineer

Fellowship duration: Aug 2020 - Jul 2021

Degree: Master of Technology

Professional experience: 6+ years of experience in IT and Data Science

Summary

I analysed and visualized data generated from field activities of Educate Girls. I designed and developed dashboards that helped the on-field operations team and upper management to understand the status of field operations and take rapid course-corrective actions based on the data.

The problem Educate Girls aims to tackle

- The gender gap in education in India's rural and educationally backward areas
- Lack of awareness/willingness to enrol girls in school

The solution Educate Girls provides…

- Raise awareness within existing community and leverage Government resources to ensure that girls are sent to school
- Monitor enrollment, learning and retention of girls in school and provide support

… contributing to the SDGs:

4 QUALITY EDUCATION

5 GENDER EQUALITY

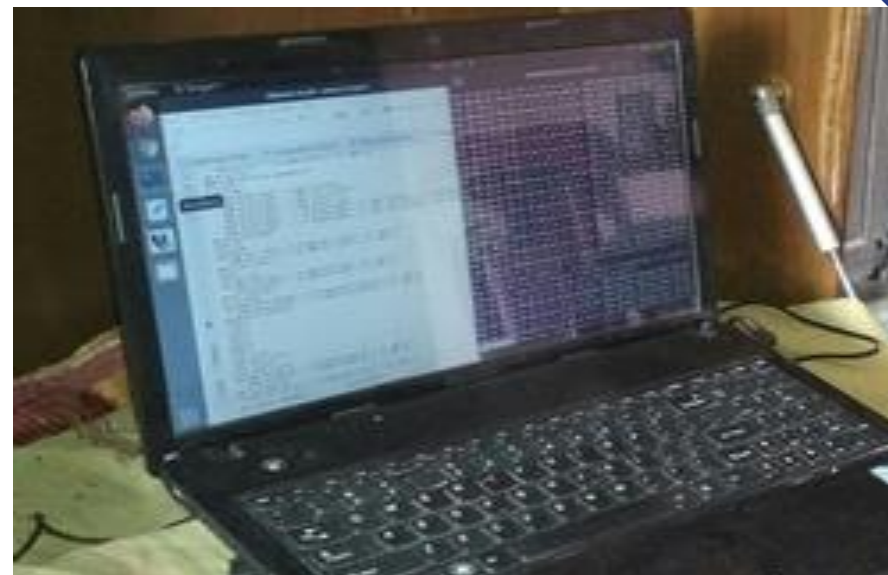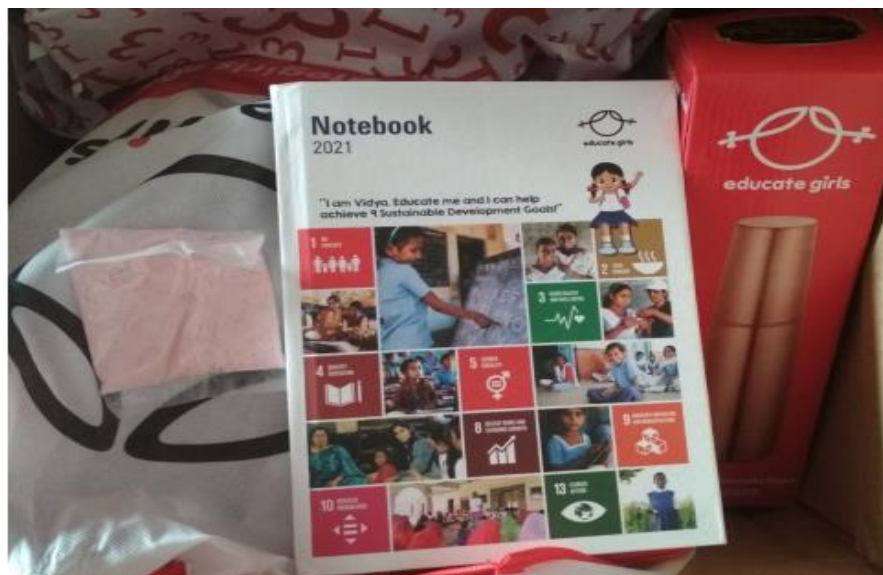**10 REDUCED INEQUALITIES**

Opportunity for a Fellow

- Educate Girls has an array of functionalities including but not limited to working with communities on the field, liaising with the Government for strategic partnership, and analyzing data to provide data-driven solutions. Each of these roles can be challenging and fulfilling for a fellow based on their area of expertise.

"My experience as a Fellow…

Was enriching and fulfilling. While it was challenging at times to work from remote (due to COVID restriction) and figure out technical issues on my own, it was a great learning experience to apply my technical knowledge and skills to measure and maximize impact. I worked within a collaborative team a supportive management.

- Sutapa

Sutapa's achievements…

- Designed and developed dashboards that helped field teams to monitor data and trends in real time, thereby enabling them to do rapid course correction.
- Build automation pipelines for routine data processing which was earlier done manually. The automation saved time and effort and increased efficiency of use of the data.
- Developed technical support for the existing as well as new programs taken up by the team, at times going beyond my comfort zone in terms of skills and learning new skills ad hoc.
- Developed strong professional relationships within and outside the team and helped internal capacity building.

… contributing to Educate Girls

4 — automated new dashboards built and maintained a total of 6 such dashboards

Reduced time and effort in data processing

10k+ — lines of code deployed

Sutapa's next challenge

Translate Educate Girls' vision into machine learning (ML) problem statements and develop efficient ML models to solve those problems *supportive.*