# Dulshani Gunawardhana

http://dshgna.github.io

## EDUCATION

#### • London School of Economics and Political Science

London, UK

MSc in Applied Social Data Science

Sep 2020 - Sep 2021

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- o 'We don't talk Anymore?' (Dissertation, Ongoing): When does polarization reach the tipping point that renders discussion infeasible? I explore this question by combining Artificial Intelligence and political science to compare Reddit's r/ChangeMyView against polarized subreddits. (Topic Modelling, Ideological Scaling, Deep Learning, Affective Polarization, Homophily, Python)
- **Petitions in a Pandemic**: How did the public mobilize the UK Government's e-petitioning system during the pandemic? What issues did they deem the most important? (Latent Dietrich Allocation, Model Evaluation, Python)
- Coursework: Machine Learning, Quantitative Text Analysis, Applied Regression Analysis, Causal Inference for Observational and Experimental Studies, Social Research Methods, Managing and Visualizing Data

### • University of Moratuwa

Sri Lanka

BSc in Information Technology; GPA: 3.73 (3.92/4.2)

Jul 2010 - Dec 2014

- Awards: Gold Medal for Academic Excellence (Highest cumulative GPA from a class of 100)
- Relevant Coursework: Probability and Statistics, Advanced Topics in Mathematics (included Linear Algebra and Calculus)

### EXPERIENCE

## • Center for Care Policy and Evaluation, London School of Economics

London, UK

Research Assistant - Data Science

Dec 2020 - Present

- Assessment of COVID-19 policy responses for Adult Social Care: Created reports and visualization to aid the reporting and response for adult social care in the UK. (R, Python)
- Natural Language Processing (Ongoing): Application of natural language processing techniques on documentation to assess the quality of adult social care in the UK.

• Facebook

Project Manager - Hate Speech

Dublin, Ireland

Mar 2019 - Sep 2020

- Operations Analysis: Deep dive investigation into the performance of operational metrics in global workflows, surfacing key business insights that were prioritized for roadmaps. (SQL)
- Reporting: Created weekly reports on operational metrics for senior leadership.
- **Dashboards**: Created and maintained multiple dashboards for the designation of abusive keywords and analysing labelling experiments. (SQL, internal dashboarding tools)
- **Project Management and Policy Development**: Achieved a 2% improvement of the hate speech accuracy metric (H2 2019) by leading several projects in policy refinement and process improvement.

Market Specialist - Sri Lanka

May 2016 - Feb 2019

- Market Operations: Owned the end-to-end launch of vendor support for Sri Lanka, including operational ownership, policy guidance, quality measurement and onsite training.
- Market Expertise: Provided expertise on the socio-political landscape of Sri Lanka in the efforts to curb ethnic tension and misinformation in the country.
- Data Reporting and Automation: Ideated and collaborated with CO Tooling to introduce an automated process for workflow creation resulting in the process being reduced from 16 hours to 20 minutes. (SQL, VBA)

• Virtusa

Colombo, Sri Lanka

Software Engineer Jan 2015 - Dec 2015

• Web Development: Developed the front-end web interface and data retrieval for a web-based application for security investigations. (Java, Javascript)

• Automated Testing: Automated quality testing to ensure functional correctness of web components and optimal user experience.