Dhara Mungra

dhara@simppl.org | +919328086219 | India

EDUCATION

NEW YORK UNIVERSITY
M.Sc. in Data Science
2019-2021 | GPA: 3.972 / 4

NIRMA UNIVERSITY
B.Tech in Computer Engineering
2015-2019 | GPA: 8.15 / 10

LINKS

Github:// DharaAMungra
LinkedIn:// dhara-mungra

SKILLS

PROGRAMMING
Python • Pytorch • MySQL
GCP • BigQuery • Docker
Bash • git • C++ • HTML/CSS

COURSEWORK

GRADUATE
Machine Learning
Deep Learning
Natural Language Understanding
Big Data and Analytics *(TA)*
Time Series Analysis
Causal Inference

UNDERGRADUATE
Information Retrieval
Artificial Intelligence
Database Management Systems
Operating Systems

TALKS

2025 UK–India AIxcelerate
2025 LIRNEasia
2025 MisinfoCon
2024 Prototype for Humanity
2024 Responsible Computing Challenge

ORGANIZING

2025 SheLeads
2025 A Teacher in the Loop
2025 NextGenAI Fellowship
2024 DW: Media Literacy
2024 Responsible Innovation Day
2024 SimPPL Fellowships

EXPERIENCE

SIMPPL | Co-Founder
July 2022 - Present | Ahmedabad, India

- Led team of 22 members to build research-backed tools to improve trust on the social internet for 100M+ users in 6 countries with the UN, New York Public Radio, Sunday Times, Deutsche Welle, Jagran News, and 10+ global partners.
- Led Media literacy partnership with Deutsche Welle (DW) to educate journalists about generative AI and the role of media organizations in combating mis, dis, and malinformation (MDM).
- Raised USD 350,000 in grants from AWS, Google, Wikimedia Foundation, Mozilla, NYC Media Lab, Goethe Institut.
- 16+ publications at ICML, NeurIPS, AAAI, ICWSM, IC2S2, dg.o, Stanford TSRC, C+J, Truth and Trust Online.

SAKHI | Co-Founder and CTO
July 2024 - Present | Ahmedabad, India

- MIT and UNICEF-incubated tech venture improving women's health literacy through AI-informed, human-in-the-loop personalized interventions on WhatsApp.
- Launched pilots with 500 families in Bangladesh and India.
- Won USD 62,500 in grants from AWS, MIT IDEAS, Delta-V, UNICEF, UNDP.
- Presented at Prototypes for Humanity and the World Bank.

BOMBORA | Data Scientist
July 2021 – July 2024 | New York, NY

- Led project from ideation to implementation using deterministic data and graph algorithms to generate truth sets for Identity ML models.
- Outlined metrics to evaluate model performance and business contribution for data source impact assessment.
- Updated ML processes reducing process time by 30% through improved feature generation, labeled data creation, and production deployment.
- Researched NLP solutions to enhance B2B intent signals and improve customer onboarding.
- Created labeled dataset and trained prototype model to detect false IP-to-domain associations, improving performance by 10%.

GUMSHOE-MUCKROCK | Data Scientist
February 2022 – June 2022 | New York, NY

- Developed an NLP tool - Gumshoe to help journalists identify task-relevant text in large email corpora and evaluated the performance of the tool for multiple datasets.
- Documented findings while highlighting their limitations and potential for bad or potentially misleading results and communicate results to the multidisciplinary team.

BOMBORA | Data Scientist Intern
September 2020 – May 2021 | New York, NY

- Examined and visualized the temporal evolution of the B2B data distribution using TSNE, Clustering Algorithms, Principal Component Analysis (PCA), kernel density estimation, KS test, and geospatial visualizations.
- Implemented Logistic Regression, Random Forest, and XGBoost classifiers for IP-type classification into different classes and evaluated their performance for different data splitting strategies using Precision, Recall, F1- Score, and ROC-AUC

RESEARCH

DEPARTMENT OF ENVIRONMENTAL STUDIES, NYU | Graduate Research Assistant

July 2020 – May 2021 | New York, NY

- Scraping and querying public funding/grantmaking databases, inclusive of those at the United States Dept. of Agriculture to create simple databases and high-quality visualizations.
- Named Entity Recognition and Topic Modelling to ascertain how public dollars were spent on a particular grant and project.

NEW YORK UNIVERSITY | Junior Data Scientist

June 2020 – August 2020 | New York, NY

- Analyzed and preprocessed signals generated by ultrahigh-energy cosmic rays (UHECRs).
- Designed a neural network to predict Xmax value for the UHECRs using time series signals and stationery information about detectors to understand the origin of these rays with the error of 0.12.

NEW YORK UNIVERSITY | Junior Data Scientist

March 2020 – August 2020 | New York, NY

- Processed million-row data from CRSP and Compustat, and merged various tables through SQL to get daily stock prices and returns for S&P 500 index constituents.
- Implemented Regression models to model the impact of news signals- derived using NLP techniques like Named Entity Recognition and Entity-based sentiment score on market volatility.

COURANT INSTITUTE OF MATHEMATICAL STUDIES, NYU | Graduate Research Assistant

January 2020 – June 2020 | New York, NY

- Worked with Prof. Mohamed Zahran from NYU Courant to predict the performance of a parallel program on a parallel machine based on performances of previous program on other machines.

DEPARTMENT OF ENVIRONMENTAL STUDIES, NYU | Graduate Research Assistant

January 2020 – February 2020 | New York, NY

- Worked with Prof. David Kanter to Analyze and visualization of trade-offs within the new Sustainable Agriculture for the time series data available for 216 countries from 1960 to 2016.

FELLOWSHIPS

2025 Global Changemakers
2025 Center for AI and Digital Policy

PUBLICATIONS

1. H. Liu, W. Huang, **D.A. Mungra**, S.R. Bowman. **'Precise task formalization matters in Winograd schema evaluations'**. arXiv preprint, 2020.
2. A. Bollington, M. DeLonge, **D. Mungra**. **'Closing research investment gaps for a global food transformation'**. Frontiers in Sustainable Food Systems, 2021.
3. C. Vania, P.M. Htut, W. Huang, **D. Mungra**. **'Comparing test sets with item response theory'**. arXiv preprint, 2021.
4. K. Weston, V. Janfaza, A. Taur, **D. Mungra**. **'Post-Silicon Customization Using Deep Neural Networks'**. Architecture of Computing Systems, Springer, 2023.
5. S. Mahmood, A. Das, **D. Mungra**, N. Surana, M. Yadav. **'How social media influencers are scaling surrogate political campaigns in global majority elections'**. 2024.
6. S.S. Mehta, **D. Mungra**. **'Credible Agentic Communication using WikiAgents'**. Wikimedia Research Fund, 2025.
7. A. Thakkar, **D. Mungra**, A. Agrawal. **'Improving the performance of sentiment analysis using enhanced preprocessing technique and artificial neural network'**. IEEE Transactions on Affective Computing, 2022.
8. **D. Mungra**, A. Agrawal, A. Thakkar. **'A voting-based sentiment classification model'**. Intelligent Communication, Control and Devices, Springer, 2019.
9. A. Thakkar, **D. Mungra**. **'Sentiment analysis: an empirical comparison between various training algorithms for artificial neural network'**. International Journal of Intelligent Engineering Informatics, 2020.
10. **D. Mungra**, A. Agrawal, P. Sharma, S. Tanwar. **'PRATIT: a CNN-based emotion recognition system using histogram equalization and data augmentation'**. Multimedia Tools and Applications, Springer, 2020.