

Chandrayee Basu

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Experience

- Postdoc | Cornell University** 2023 - present
Personalized Med-EASi – Retrieval augmented personalized reading assistant for interdisciplinary medical researchers.
Mentoring projects – Scientific reasoning and hypothesis generation using graph aware LLM.
- Researcher | Stanford University** 2021 - 2023
Med-EASi – Finely annotated dataset and seq-2-seq models for controllable simplification of medical texts (AAAI-2023).
Value-aware LLM – Finely annotated review dataset and models for value-understanding and value-augmented reasoning over user-item recommendation graph.
- Independent Researcher** 2019 – 2020
Exploring novel forms of human supervision for controlled medical text simplification.
- AI Fellow | Insight** 2019
Anomalous Traffic Behavior Generation with GAN - Developed an algorithm that can synthesize anomalous vehicle trajectories from normal traffic data using adversarial training.
- Graduate Intern | Computer Science, Stanford University** 2018
Learning Multi-modal Human Preference with Active Learning (IROS 2019)
Developed an algorithm to learn complex *multi-modal* human preferences for how robots should act.
Augmented the query structure of state-of-the-art comparison-based active reward learning algorithm.
- Graduate Intern | InterACT Lab, UC Berkeley** 2017
Learning Human Preferences with Rich Active Queries (HRI 2018)
Faster convergence of active query-based reward learning algorithm with feature queries
- RA, Robotics Institute | Carnegie Mellon University** 2014 -2015
BLUBot: Bluetooth Localization for Human-Robot Rendezvous
- Research Intern | UARC (NASA Data Sciences Group)** 2014
PerCCS: Person Count with Machine Learning from CO₂ sensor data (UbiComp 2015)
- GSR, Mechanical Engineering | UC Berkeley** 2010 - 2013
Smart Lighting

Education

- 2015 – 2019 Ph.D.** EECS, University of California, Merced (08/16/2019)
Thesis: Personalizing Autonomous Driving with Rich Human Guidance
I developed algorithms to enable AI agents to learn human preferences interactively.
- 2013 - 2015 M.S.** Advanced Infrastructure Systems, Carnegie Mellon University
- 2009 - 2013 M.S.** Building Science, Department of Architecture, UC Berkeley
- 2001 - 2006 B.Arch** Jadavpur University

Skills

Languages: Python (expert), Java (experienced), C++ (familiar), Javascript, MATLAB, HTML, SQLite, SQL, Android

Machine Learning tools and libraries: Pytorch, Tensorflow, scikit-learn, Huggingface, LlamaIndex, Recsim, Pandas, NLTK

Machine Learning experience: Natural Language Generation, Preference Learning, Reward Learning, Active Learning, Inverse Reinforcement Learning, Reinforcement Learning, Graph-LLM, Text Style Transfer

Engineering: AWS, GCP, Streamlit, PyWren, Toloka, Amazon MTurk, psiTurk, Raspberry Pi, React