NIHARIKA SRIVASTAV

Graduate Student in **LINQS Lab**, under **Prof. Lise Getoor** and Teaching Assistant at University of California, Santa Cruz. Doing research in Collective Classification and Statistical Relational Learning for Computational Social Science projects using Probabilistic Soft Logic (**PSL**), to find design patterns. Proficient in programming, debugging, version control, continuous integration, and documentation. Quick-learner and a good team player.

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EDUCATION

Master of Science in Computer Science
University of California Santa Cruz

📅 Sept 2019 - March 2021 ⚲ Santa Cruz, California

– GPA: 3.89/4.0

Bachelor of Engineering
University of Mumbai

📅 June 2014 - May 2018 ⚲ Mumbai, India

– GPA: 8.57/10

PROJECT WORK AND EXPERIENCE

Data Science Project
University of California Santa Cruz

📅 April 2020 – Present ⚲ Santa Cruz, California

– Simulated how cultural aspects play a role in the rate of infection and the spread of the COVID 19 based on Reproduction number.
– Forecasted infection rate peaks for 2 states and 2 countries.
– Compared and analyzed the similarities and differences between social-cultural simulations and actual peak prediction. **Video Link**

Database Systems Project
University of California Santa Cruz

📅 Sept 2019 – Dec 2019 ⚲ Santa Cruz, California

– Developed a distributed and replicated system to transmit, store, and query data for a simulated IoT infrastructure.
– The infrastructure contained one device which transmits real-time data to multiple servers and supported fault-tolerance as long as at least one server is alive at any given moment in time.

ML Research intern
TCS Innovations Lab at Tata Consultancy Services (TCS)

📅 Jan 2018 – June 2018 ⚲ Thane, Mumbai

– Worked on a Human Computer Interface (HCI) system for determining aesthetics of the human gestures. Developed a software application to analyze the gesture using a Kinect sensor.
– Built a ML based feature extraction model for determining aesthetics of a gesture and UI for the users to be able to train and test the system.

Software Engineer Intern
Centre for Linguistic Science and Technology, IIT Guwahati (IIT-G)

📅 June 2017 - August 2017 ⚲ Guwahati, Assam

– Designed and implemented a system using R for word based Speech Recognition System using DTW and Cepstrum analysis.
– Implemented a triphone based speaker independent ASR system that recognized continuously spoken Marathi (an Indian language) speech using Hidden Markov Model Toolkit (HTK).

PROG. LANGUAGES

- **Python**
- **SQL**
- **JAVA**
- **Matlab / R / Octave**
- **C/C++**

TECHNICAL SKILLS

- **Libraries:** Pandas, Numpy, Scipy, Matplotlib, Scikit-Learn, PyTorch, Keras, BeautifulSoup, PubNub.
- **Environments:** Linux, UNIX, Mac, Windows, AWS, Arduino, Socket Programming.
- **Tools:** Git, Bitbucket, vim, shell/bash script, Make, Jupyter, Google Colab, Atom.

RELEVANT COURSES

- **AI:** Machine Learning, Responsible Data Science, Regression, Classification, Bayesian Inference, Collective Classification, Probabilistic Graphical Models, Statistical Relational Learning,
- **Systems and Theory:** Principles of Database Systems, Programming Languages, Algorithms and Data Structures, Probability and Statistics, Object Oriented Programming

PUBLICATIONS

- Srivastav, N., Agarwal, S., "Denoising of Continuous Glucose Monitoring signal with Adaptive SGFilter". Conference: Soft Computing: Theories and Applicatioon SoCTA-2018 **Springer BookChapter**

AWARDS

- Awarded a silver medal and cash prize for college second rank in B.E. first year.
- Best Paper of the Session, NSCFET 2017 conference and NSCFET 2018 conference.