

# Jayanth Yetukuri

📍 San Francisco Bay Area, CA, USA

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## Summary

A **decade** of formal education and research background along with **5+ years** of industry research experience in *Artificial Intelligence* and *Machine Learning* (AIML). Lead and developed multiple state of the art real-world projects.

## Professional Experience

### eBay Research

San Jose, USA

*Applied Research Intern | Search Science and Query Understanding*

June - August, 2022 & 2021

2022. Multifaceted reformulation for Null and Low user search queries. Built a transformer based model to provide *multiple and diverse* reformulations by solving a diversity inducing optimization problem

2021. Box Lattice embedding for representing user search query and categories using a novel loss function for dominant category prediction leveraging query-category hypercube intersection.

### Bosch Research and Technology Center

Bangalore, India

*Applied Research Intern | Corporate Research/ Research Technology Center-India*

July 2019 - September 2019

- Worked on deep learning (supervised) based methods for time series classification. Developed novel feature extraction based on kernel techniques to replace state of the art distance metric and worked on the UCR datasets

### Oracle Research and Development

Bangalore, India

*Data Engineer | Retail Artificial Intelligence and Analytics*

June 2014 - September 2018

- Developed a framework for data generation and end-to-end automation testing of *Retail Insights*, with the responsibility of leading a team of five. Also, built a model for **demand forecasting** of essentials in a crisis zone

### Near.com Research

Bangalore, India

*Collaborative individual project*

September 2016 - January 2018

- Built a model to estimate time-sensitive ambient population of any ad-hoc region based on human mobility data. Worked on classical census data and contemporary mobile data to build a reliable model

## Publications & Preprints

- Providing Recourse over Plausible Groups (under review) 2023
- Multifaceted reformulations for Null & Low Queries and its Parallelism with Counterfactuals (under review) 2023
- Individual and Group-level considerations of Actionable Recourse [AIES] 2023
- Towards User Guided Actionable Recourse [AIES] 2023
- Adaptive Adversarial Training Does Not Increase Recourse Costs [AIES] 2023
- Robust Stochastic Bandit algorithms to defend against Oracle attack using Sample Dropout [BigData] 2022
- Sequential Image Synthesis for Human Activity Video Generation [ICIAR] 2019

## Honors & Awards

- Awarded **Travel grant** by Sixth AAAI/ACM Conference on AI, Ethics, and Society 2023
- Received **Regents Fellowship** from University of California, Santa Cruz 2019
- Awarded **Employee of the year** at Oracle Research and Development, Bangalore, India 2018
- Won the **Design Jam** in Oracle where we built a prototype for faster delivery of goods in a crisis zone 2016
- Received **Post Graduate Scholarship** in India for pursuing Masters in computer science 2012
- Secured **99 percentile** in GATE (Graduate Aptitude Test in Engineering) at national level in India 2012
- Received **Prime Ministers scholarship** in India for pursuing Bachelors in computer science 2008

## Skills & Interests

- **Languages/Technologies:** Experience with Python, C and Latex. Proficient in *Pytorch*, *Keras* and *Tensorflow*. Worked with Apache Pyspark, Hadoop-MapReduce and Redis.
- **Interests:** Trustworthy AIML, Improving the Fairness and Ethical dynamics of automated systems.

## Education

### University of California, Santa Cruz

Santa Cruz, USA

*Doctor of Philosophy in Computer Science | GPA : 3.9 / 4.0*

September 2018 - May 2024

### University of Hyderabad

Hyderabad, India

*Master of Technology in Computer Science | CGPA : 8.7 / 10*

June 2012 - May 2014

### Jawaharlal Nehru Technological University

Tirupati, India

*Bachelor of Technology in Computer Science | 74.7% (Distinction)*

October 2008 - May 2012

## References

- **Mentors:** Dr. Yang Liu, Dr. Zhe Wu, Dr. Madhusudan Therani, Dr. Suresh Lodha
- **Colleagues:** Dr. Ishita Khan, Aritra Mandal, Ganesh Govindaraju, Dr. Subramanya Bharadwaj