

# Sachit Gaudi

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## EDUCATION

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### Master of Science in Computer Science & Engineering

East Lansing, MI

Michigan State University **CGPA: 3.833/4**

Jan 2023 - \*

- Graduate Teaching Assistant: Database Systems (Summer'23), Intro to programming (Fall'23)
- Key Courses: Computer Vision, Graph Theory, Parallel Computing

### Certificate in Foundations of AI/ML

Hyderabad, India

Indian Institute of Technology, Kharagpur

Apr 2019 - Sept 2019

- Relevant Courses: Linear Algebra for Machine Learning, Probability, Statistics, Machine Learning, Information Retrieval, Natural Language Processing, Image Processing.

### Indian Institute of Technology, Guwahati

Guwahati, India

B.Tech in Mechanical Engineering; **CGPA: 7.30/10**

July 2014 - May 2018

- Relevant Courses: Linear Algebra, Data Structures and Algorithms, Calculus, Differential Equations.

## WORK EXPERIENCE

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### Reliance Jio Haptik

Mumbai, India

Software Development Engineer, Conversational Commerce team

Jan 2020 - Dec 2022

- Researched state-of-the-art algorithms and implemented multi-task BERT-based transformer model, trained on product labels, Named entities and Intent label data on the supermarket data.
- Developed personalization of recommended products using collaborative filtering.
- Implemented back track algorithm to improve Intent detection and Tf-idf to improve semantic extraction.

### SmatSuite

Hyderabad, India

Lead Backend Engineer

Jan 2019- Jan 2020

- Took responsibilities of Architecture and Database design. Developed Analytics, Reseller, Integrations, and Multilingual modules for SmatBot product
- Improved recommendations of Media Articles for Clients' social media for SmatSocial product

## PROJECTS & RESEARCH EXPERIENCE

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### Fairness and Privacy (Masters Thesis)— Prof. Vishnu Boddeti

Michigan State University, East Lansing, MI

Jan 2023 - \*

- I am working on algorithm fairness, where the goal is ensuring equitable treatment of all groups without using group information. ref : <https://sachit3022.github.io>

### Deep Learning based Image Search for e-commerce — Dr. Subrat Panda

Indian Institute of Technology, Kharagpur

Sept - Oct 2019

- Implemented Triplet Pair Siamese Network with base model an ensemble of VGG16 and less dense CNN trained with hinge loss. Achieved 10% recall with flexibility to train on search rank data compared to the 7% of traditional algorithms.

### Dislocation Dynamics Simulations (Bachelor Thesis) — Prof. Prasenjit Khanikar

Indian Institute of Technology, Guwahati

July '17 - May '18

- Study of the material properties under stress. Performed dislocation dynamics simulations under different initial configurations, such as Temperature, Quasi-static conditions, and Crystal structures, etc.
- Verified the results with the theory and discussed the reasons along with the experimental results obtained in the research.

### Translate hotel reviews into Actionable Business Intelligence. — Prof. Vipul Gupta

Saint Joseph's University, Philadelphia, PA

May - July 2017

- Performed Sentiment Analysis using VADER sentiment algorithm and assigned sentiment values to the aspects. Measured how reviews along aspects effect occupancy rate in hotels. Achieved at an accuracy of 85% showing strong correlation.

## SCHOLASTIC ACHIEVEMENTS

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2020 - Received Big Hand award from Haptik for exemplary performance.  
2019 - Received Scholarship based on Merit from IIT, Kharagpur.  
2014 - Secured Joint Entrance Examination All India Rank of 2240 among 0.15 million candidates appearing for the test.

## SKILLS AND INTERESTS

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**Programming:** Python, C++, Java, PyTorch, transformers.

**Search and Databases:** MySQL, OracleSQL, Solr, MongoDB

**Other Tools and Technologies:** Docker, Flask, Git, Elastic Search, Jenkins, HTML/CSS/JS, RabbitMQ, AWS - Elastic Compute Cloud

**Conferences:** CVPR, EMNLP, Data Hack.

**Interests:** Books, Running, Tennis.