

# Shanya Sharma

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## Experience

### Walmart Labs

Bangalore, India

SOFTWARE ENGINEER III

Aug 2020 - Present

- Responsible for the research and development of a node aware platform to optimally assign tasks to store and warehouse associates using operations research and constraints solving. Observed a 50% improvement in the metrics through the POC developed using Google OR-Tools.
- Responsible for integration of Directme-Core and Directme-STA with logging and monitoring frameworks like Prometheus, Grafana, Splunk etc.
- Developed an elastic push gateway using Apache Flume to receive data metrics, aggregate and push to a Kafka Topic.
- Developed services for Return and Recall Management System for Walmart Stores. Received spot award for the contribution.

### BigScience Workshop

OPEN SOURCE CONTRIBUTOR

May 2021 - Present

- Working with metadadata workgroup responsible for training Language Models with metadata to enable controllable text generation.
- Working on creation of multilingual evaluation datasets for bias evaluation in Language Models.
- Contributed to the development of PromptSource tool.
- Contributed to the creating and fixing incorrect prompts used in the training of T0.

### SAP Labs

Bangalore, India

DEVELOPER ASSOCIATE

July 2018 - August 2020

- Developed micro services from scratch for deployment of business objects in various ERP system as part of Test Data Engineering.
- Improved reliability of the Transactional Data Framework by proposing and developing a module to monitor the availability of ERP systems
- As a member of the Machine Learning group, worked on the development of a tool to classify tickets into various defect categories based on the text
- Researched and developed a pipeline for detecting anomalies in the interface connections using Macrobase analytics engine
- Developed and maintained automation tools to increase productivity of the quality assurance team

### Indian Institute of Information Technology

Jabalpur, India

RESEARCH INTERN

May 2017 - July 2017

- Worked on a generating class-level documentation of given object-oriented code by using micro-patterns under the guidance of Prof. Atul Gupta
- Proposed and modified the parsing approach to improve the detection of the micro patterns. An improvement of minimum 2 relevant micro-patterns was observed for each tested class
- Performed experiments to test the code-coverage and proposed an extension to the list of micro-patterns

## Education

### Shri Govindram Seksaria Institute of Technology and Science (S.G.S.I.T.S.)

Indore, India

B.E. IN ELECTRONICS AND INSTRUMENTATION ENGINEERING (GPA: 8.31/10)

2014 - 2018

- Within the top 5 students of the class
- Recipient of CSS Scholarship (2014-2018)

## Publications

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|------|---|
|      | <b>How sensitive are translation systems to extra contexts? Mitigating gender bias in Neural Machine</b>  |
| 2022 | <b>Translation models through relevant contexts</b> Shanya Sharma, Manan Dey and Koustuv Sinha (Under Submission) arXiv 2022  |
|      | <b>You reap what you sow: On the Challenges of Bias Evaluation Under Multilingual Settings</b> Zeerak Talat, Aurélie Névéol [and 14 others including <b>Shanya Sharma</b> ] Workshop on Challenges & Perspectives in Creating Large Language Models, ACL 2022 |
| 2022 | Stephen H. Bach, Victor Sanh [and 25 others including <b>Shanya Sharma</b> ] <b>PromptSource: An Integrated Development Environment and Repository for Natural Language Prompts</b> Spotlight, ICLR 2022  |
| 2022 | Victor Sanh, Albert Webson, Colin Raffel, Stephen H. Bach, [and 38 others including <b>Shanya Sharma</b> ] <b>Multitask Prompted Training Enables Zero-Shot Task Generalization</b> Demo Track, ACL 2022  |
| 2020 | <b>Shanya Sharma</b> , Manan Dey and Koustuv Sinha. <b>Evaluating gender bias in NLI Systems.</b> WDCCS Workshop, NeurIPS 2020  |
| 2019 | <b>Shanya Sharma</b> and M. Dey <b>Assessing viewer's mental health by detecting depression in YouTube videos.</b> AISG Workshop, NeurIPS 2019  |

## Volunteer Experience

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**Reviewer** EMNLP(2022), ICLR(2022), NeurIPS (2020-2022), ICML (2020-2022), ACM CHIL (2021-2022), ML4H NeurIPS(2019-2021), WDCS NeurIPS(2019)

**Volunteer** ICML(2020), WiML NeurIPS(2019-2020)

2020 **Open Source Contributor** COVID Tracing App Simulator, Sub-Project of Peer-to-Peer AI Tracing App delegated by Prof. Yoshua Bengio.

2020 **Community member** Omdena

2020 **Software Development Volunteer** DaanMatch

## Honors & Awards

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2019 **Finalist** SAP 1 Billion Lives Asia Pacific Regional

2019 **Most Promising Fresher** SAP Labs S4HANA Test Engineering

## Invited Talks

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### Using Python to analyze YouTube content for depression

BANGPYPERS

August 2019

- Invited as one of the speakers for a session organized by BangPypers, a community of more than 9,000 Python enthusiasts

## Leadership Roles

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### TAFLE

CO-FOUNDER

April 2019 - Dec 2019

- Co-founded TAFLE, a startup focused on enabling circular economy, as part of SAP's 1 Billion Lives Initiative
- One of the top 5 finalists to present at the APJ level

### Ingenious, S.G.S.I.T.S. Literary Club

PRESIDENT

May 2017-May 2018

- Conducted and supervised the organization of various literary events including Liter-O-Mania 2017: S.G.S.I.T.S. literary fest and Kavyanjali 2017, a state level hindi poetry competition

### S.G.S.I.T.S. Robotics Club

COMMITTEE MEMBER

May 2015-May 2017

- Organized various college-level workshops and led the organization of a college-level technical quiz competition.