Shanya **Sharma**

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Experience

Walmart Labs   *Bangalore, India*
Software Engineer III   *Aug 2020 - Present*

- Responsible for the research and development of matchmaker to optimally assign tasks to store and warehouse associates. Observed a 50% improvement in the metrics through the POC developed using Google OR-Tools.
- Responsible for integration of 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.

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
- Researched and developed a pipeline for detecting anomalies in the interface connections using Macrobase analytics engine.
- Developed a novel framework to predict user actions with a final accuracy of 78% by analysing patterns in the XHR requests.
- As a member of the Machine Learning group, incorporated Machine Learning in SAP's internal tools, to reduce the manual effort

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

2021	Stephen H. Bach, Victor Sanh [and 25 others inluding **Shanya Sharma**] **PromptSource: An Integrated Development Environment and Repository for Natural Language Prompts** arXiv, 2022
2021	Victor Sanh, Albert Webson, Colin Raffel, Stephen H. Bach, [and 38 others inluding **Shanya Sharma**] **Multitask Prompted Training Enables Zero-Shot Task Generalization** arXiv, 2021
2020	**Shanya Sharma**, Manan Dey and Koustuv Sinha. **Evaluating gender bias in NLI Systems.** WDCS Workshop, NeurIPS 2020
2019	**Shanya Sharma** and M. Dey **Assessing viewer's mental health by detecting depression in YouTube videos.** AISG Workshop, NeurIPS 2019

Selected Projects

Detecting Depression Triggers in YouTube videos

HTTPS://GITHUB.COM/SHANYAS10/DETECTING-DEPRESSION-THROUGH-YOUTUBE-HISTORY

- Used Long Short-Term Memory (LSTM) networks to understand the video content form the transcripts to identify if a video can trigger depression with an accuracy of 83%
- Proposed a novel method of evaluating comments by analysing the text and mapping to a score that they will obtain on a CES-D scale
- Paper selected at NeurIPS 2019 AI4SG Workshop.
- As an extension, calculated affective scores of videos using the audio-visual feature to analyse the affective pattern generated from the YouTube watching history of an individual to predict their depression severity score

Fake News Detection during disasters

HTTPS://GITHUB.COM/SHANYAS10/FAKE-NEWS-DETECTION

- Developed a multi-modal model using BiLSTM-CharCNN and VGG 16 that can detect the credibility of a post by effectively capturing the semantics of the text along with the features of associated piece of multimedia in it

Volunteer Experience

2021	**Reviewer** ICLR, 2022
2021	**Open Source Contributor** HuggingFace Big Science Workshop
2021	**Reviewer** ACM Conference on Health, Inference and Learning (CHIL)
2021	**Reviewer** ICML, 2021
2020	**Open Source Contributor** COVID Tracing App Simulator, Sub-Project of Peer-to-Peer AI Tracing App delegated by Prof. Yoshua Bengio.
2020	**Reviewer** NeurIPS, 2020
2020	**Reviewer** ML4H NeurIPS 2020
2020	**Reviewer** WDCS NeurIPS 2020
2020	**Volunteer** WiML NeurIPS 2020
2020	**Reviewer** ACM Conference on Health, Inference and Learning (CHIL)
2020	**Community member** Omdena
2020	**Volunteer** ICML 2020
2020	**Software Development Volunteer** DaanMatch
2019	**Volunteer** WiML NeurIPS 2019
2019	**Reviewer** ML4H NeurIPS 2019

Honors & Awards

2019	**Finalist** SAP 1 Billion Lives Asia Pacific Regional
2019	**Most Promising Fresher** SAP Labs S4HANA Test Engineering
2017	**615th Place (Global rank)** Codechef Snackdown pre-elimination round
2017	**22/5383** Cognizant MasterCode
2016	**1st Place** Codefoster Competitive Coding Competition

Invited Talks

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

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.