Shanya **Sharma**

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Education

S.G.S. Institute of Technology and Science *Indore, India*

B.E. in Electronics and Instrumentation Engineering (GPA: 8.37/10) *2014 - 2018*

Experience

Walmart Labs *Bangalore, India*

Senior Software Engineer *Aug 2020 - Present*

- Responsible for end-to-end development of backend services for Return Management systems for Walmart store associates with WCNP as the cloud platform

SAP Labs *Bangalore, India*

Developer Associate *July 2018 – August 2020*

- Developed micro services from scratch for deployment of business objects in various ERP system with Cloud Foundry as the cloud platform
- Worked on detecting anomalies in the interface connections using Median Absolute Deviation and Percentile classifier. Filed an IDF to patent the same
- Proposed and developed a novel framework to predict user actions with a final accuracy of 78% by analysing patterns in the XHR requests. Filed an IDF for the same
- 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 research project to generate automatic class-level documentation of object-oriented code provided in the input
- Used micro-codes to tag the various elements of the code which were then used for generation of a class level documentation of the code

Publications

2020 **Workshop Paper**, S. Sharma, M. Dey and K. Sinha. Evaluating gender bias in NLI Systems. WDCS Workshop, NeurIPS 2020

2019 **Workshop Paper**, S. Sharma and M. Dey. Assessing viewer's mental health by detecting depression in YouTube videos. AISG Workshop, NeurIPS 2019

2018 **Conference Paper**, M. Tiwary, S. Sharma, P. Mishra, H. El-Sayed, M. Prasad, and D. Puthal. Building scalable mobile edge computing by enhancing quality of services. International Conference on Innovations in Information Technology, 2018

Selected Projects

Evaluating Gender Bias in Natural Language Inference *Independent*

- Proposed an evaluation methodology by constructing a challenge task to demonstrate that gender bias is exhibited in state-of-the-art fine-tuned Transformer-based NLI model outputs
- Tested augmentation as an existing debiasing technique and understand its efficacy on various state-of-the-art NLI Models
- Paper accepted at NeurIPS 2020 Workshop on Dataset Curation and Security

Detecting Depression Triggers in YouTube videos *Independent*

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%
- Additionally, we propose a novel method of validating the results by analysing the CESD score of comments
- 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 *Independent*

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

2020 **Open Source Contributor**, COVID Tracing App Simulator, Sub-Project of Peer-to-Peer AI Tracing App

2020 **Reviewer**, NeurIPS, 2020

2020 **Reviewer**, ML4H NeurIPS 2020

2020 **Reviewer**, ACM Conference on Health, Inference and Learning (CHIL)

2020 **Community member**, Omdena

2020 **Volunteer**, ICML 2020

2019 **Volunteer**, WiML NeurIPS 2019

2019 **Reviewer**, ML4H NeurIPS 2019

2018 **Data Science Volunteer**, Data For Democracy

Honors & Awards

2019 **Finalist**, SAP 1 Billion Lives Asia Pcaific Regional

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

2019 **2nd Place**, Testathon

2017 **615th Place**, Codechef Snackdown pre-elimination round

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