

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](https://github.com/shanyas10/detecting-depression-through-youtube-history)

- Used Long Short-Term Memory (LSTM) networks to understand the video content from 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](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 Pacific 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