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

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

NeurIPS 2020

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

Conference Paper, M. Tiwary, S. Sharma, P. Mishra, H. El-Sayed, M. Prasad, and D. Puthal. Building scalable

2018 mobile edge computing by enhancing quality of services. International Conference on Innovations in Information Technology, 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 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
- · Worked on 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

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
- Proposed and modified the parsing approach to improve the detection of the micro patterns. An improvement of minimum 2 relevant micropatterns was observed for each tested class
- · Performed experiments to test the code-coverage and proposed an extension to the list of micro-patterns

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

HTTPS://GITHUB.COM/SHANYAS10/FACIAL-EMOTION-RECOGNITION-SYSTEM

- Developed a facial emotion classifier using SVM to classify a facial expression as happy, sad or surprised with an accuracy of 73%
- Used Cohn-Kanade dataset for training and evaluation purpose.
- Used Viola Jones Algorithm for facial detection and Local Binary Patterns(LBP) for feature extraction.
- Created an additional evaluation dataset of 100 images by capturing facial expressions of 5 volunteers to calculate the out-of-domain accuracy, which came out to be 68%
- · Integrated with Arduino UNO to capture the output signal from MATLAB and display the detected emotion on 16x2 LCD

Volunteer Experience

| 2020 | Open Source Contributor, COVID Tracing App Simulator, Sub-Project of Peer-to-Peer Al Tracing App |
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| | delegated by Prof. Yoshua Bengio. |
| 2020 | Reviewer, NeurIPS, 2020 |
| 2020 | Reviewer, ML4H NeurIPS 2020 |
| 2020 | Reviewer, WDCS NeurIPS 2020 |
| 2020 | Volunteer WiMI NourIPS 2020 |

- 2020 **Community member**, Omdena
- 2020 Volunteer, ICML 2020

2020

- 2020 Software Development Volunteer, DaanMatch
- 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
- 2017 **615th Place (Global rank)**, Codechef Snackdown pre-elimination round

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

- 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.

Extracurricular Achievements

- 2019 **2nd Place**, Chess Tournament, SAP
- 2016 **Winner**, Verba Maximus (BITS Hyderabad National Literary Festival) Creative Writing competition
- 2015 **Winner**, Liter-O-Mania (S.G.S.I.T.S. Literary Festival) TTT Competition
- 2014 **2nd Place**, Inter-Branch Chess Tournament, S.G.S.I.T.S.