

# SAUMYA SANDIPKUMAR GANDHI

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## Education

**Visvesvaraya National Institute of Technology, Nagpur (CGPA: 9.04/10)** July 2018 — May 2022

*B.Tech, Computer Science and Engineering*

*Nagpur, India*

- Student faculty: Conducted remedial classes for Computer Programming subject to 30+ fresher students
- Samvad Co-Founder: Co-Founded the college debating society and organised 20+ events across debates and discussions
- Student Mentor: Help 15 freshers navigate academics, extra-curriculars, and career options
- Coursework: Probability Theory, Linear Algebra, Data Structures, Operating Systems, Analysis of Algorithms

## Experience

**Goldman Sachs**

May 2021 — July 2021

*Summer Analyst*

*Bangalore, India (Remote)*

- Designed a reconciliation system using a Spring Batch job to periodically identify failed transfers
- Developed a replay system to perform replay of specific failed transfers using existing internal flow
- Reduced the projected turnaround time for failed transfers and chances of Sev2 incidents relating to transfer flow

**MIDAS@IIITD**

May 2020 – July 2020

*Summer Research Intern*

*Delhi, India (Remote)*

- Researched and implemented NLP models for detecting Suicide Ideation from social media posts
- Created STATENet, SISMO, and ASHA - novel models that surpass the current State-of-the-art models by 5% F1 score
- Co-authored three research papers published at top-tier conferences and journals such as EMNLP, WSDM, and JAMIA

**SRIP - International Institute of Information Technology, Hyderabad**

May 2019 – July 2019

*Summer Intern*

*Hyderabad, India (Remote)*

- Contributed to an MHRD open-source initiative to develop virtual labs for colleges
- Designed three experiments for the Artificial Neural Network section using ProcessingJS for students to learn about Interactive Activation and Competition models and Self Organizing Maps
- These experiments have helped Virtual Labs reach >4 Million cumulative pageviews

## Publications

- Sawhney, R., Joshi, H., Gandhi, S., & Shah, R. (2020, November). A time-aware transformer based model for suicide ideation detection on social media. In Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP).
- Sawhney, R., Joshi, H., Gandhi, S., & Shah, R. Towards Ordinal Suicide Ideation Detection on Social Media. In Proceedings of the 14th ACM International Conference on Web Search and Data Mining.
- Sawhney, R., Joshi, H., Gandhi, S., Jin, D., & Shah, R. R. (2021). Robust suicide risk assessment on social media via deep adversarial learning. Journal of the American Medical Informatics Association.

## Projects

**Reddit Flair Detection** | *NLP & Data Science* [\[LINK\]](#)

- Created and explored a reddit dataset of 14400 data points for flair(category) detection from posts
- Built multiple text-classification pipelines such as logistic regression, LSTMs, and deployed the best model (BERT)
- Achieved an accuracy of 67% for India subreddit, and deployed the model as a Django web application

**Attention Span Detection** | *Computer Vision* [\[LINK\]](#)

- Led a team of 6 members to create a solution for detecting attention span in online instructor-led sessions
- Utilized facial keypoints for analyzing attention metrics such as yawning and head orientation using Python, and displayed the results to instructor via a mobile app along with analytics report for each session
- Judged by GreatLearning as the winning solution across more than 50 teams at the Smart India Hackathon 2020

**Torchblaze** | *Machine Learning* [\[DOCUMENTATION\]](#)

- Created a Python library for end-to-end Machine Learning using PyTorch to help with model training and deployment
- Developed generic templates for flask integration, ML unit testing, model dockerization, and ML project organization
- Deployed library to PyPi and created a roadmap for future developments as an open-source project

## Technical Skills

**Programming:** C, C++, Python, Java

**Research Tools and Libraries:** PyTorch, Tensorflow, Pandas, Matplotlib, Plotly, LaTeX, Git, Filmora, ReactJS, Spring

## Achievements

- Led a team of 6 members to win the Smart India Hackathon 2020 for the problem statement: “Attention Span Detection in online-instructor led sessions”.
- Winner of sprint 0 and sprint 1 of Major League Hacking Fellowship Program
- Course topper for following subjects: Computer Programming (100/100), Operating Systems, Software Engineering