

Sarika Singh

Email– sarika.s2407@gmail.com

Contact– +91 9920696899

Linkedin– www.linkedin.com/in/sarika-singh-b32a1619a/

Github– github.com/sarikasingh00

Skills –

Languages - C, Java, Python, Dart

Frameworks and tools - Android Studio, Django, Flutter

Database Management - MySQL, Sqlite3, Firebase

Version Control System - Git/Github

Education –

Sardar Patel Institute of Technology

08/2018 – Expected 05/2022

B.Tech. Computer Engineering

CGPA – 9.98/10 (Till Semester 4)

Department Rank - 2

PACE Junior Science College

08/2016 – 05/2018

HSC, Standard XII

Board Examination – 95.23%

Hiranandani Foundation School

06/2003 - 05/2016

ICSE Standard X

Board Examination – 97.83%

Additional Achievements and Certificates

College to Corporate: Industry Skills Development– J.P Morgan Chase & Co. (09/2019 – 12/2020): Learnt about emerging technologies like machine learning and automation. Learnt about the stock market, corporate required soft skills from professionals at JPMC.

Social Work

Abhyudaya – SPJIMR

(08/2019- 05/2020)

Taught underprivileged students of standard 10. Held doubt clearing sessions for Science and Math.

Experience

Google India – Software Engineering Intern

(05/2021 – 08/2021)

- Worked with historical usage metrics to find optimizations in the current configurations of fleet capacity using machine learning algorithms and scheduler simulations.
- Formulated ways to improve the safety and efficiency of the fleet based on data insights and simulations.

Positions of Responsibility

Chairperson, Computer Society of India – S.P.I.T. (08/2020 - 07/2021)

- Managed a team of 32 people under CSI's SPIT Student Chapter.
- Organized technical events aimed at bringing aspects of technical and non-technical education together.
- Organized a national level Hackathon with prizes worth Rs. 1 Lakh, and a country-wide participation of 250+ students.

Events Team, Computer Society of India – S.P.I.T. (08/2019 – 07/2020)

- Assisted in the organization and crowd-pulling of events, increased social media reach.

Head of Strategy, Oculus the Fest, S.P.I.T.

(08/2019 – 02/2020)

- Formulated plans for the smooth organization of the college fest.
- Coordinated with all departments of the organizing committee and ensured timely completion of all the work.

Senior Correspondent, Spark, S.P.I.T.

(08/2019 – 07/2020)

- Wrote [articles](#) as a senior author in the official editorial team, SPark.

Projects

Handwritten Subjective Answer Evaluation System | [GitHub](#)

(01/2021 – 04/2021)

- Developed a mobile app in Flutter for automated correction of student answers in an exam by measuring text similarity based on keywords using Word2vec embeddings.
- Used Flask and Python modules to host the neural network model and Firebase for database.

Library Management System | [GitHub](#)

(09/2020-11/2020)

- Developed a College Library Management Portal. Worked on the backend of the website in Django.

Budgeting App- Budget Buddy | [GitHub](#)

(08/2019 – 10/2019)

- Developed an Android app in Java to help users in expense tracking.
- Worked on the database operations in Firebase and user interface.
- Optimised the number of database reads and writes.

Research Publications

Context-Based Deep Learning Approach for Named Entity Recognition in Hindi | Primary Author

- Accepted and presented at ICCICT 2021 – S.P.I.T., Mumbai.
- Published in IEEE Xplore. DOI: [10.1109/ICCICT50803.2021.9510090](https://doi.org/10.1109/ICCICT50803.2021.9510090)
- Used a BiLSTM neural network to perform NER in Hindi using contextual word embeddings. Highlighted the importance of context in Hindi.

Automated Paper Evaluation System for Subjective Handwritten Answers | Primary Author

- Accepted and presented at the 12th ICCNT– IIT Kharagpur for publication in IEEE Xplore.
- Based on project - 'Handwritten Subjective Answer Evaluation System'.