



SHWETA GODSE
M.S. Research - Systems Engineering and
Theoretical CS
Ph: +91-9930392572
Email: s20006@students.iitmandi.ac.in
LinkedIn: <https://www.linkedin.com/in/shwetagodse/>



BRIEF SUMMARY

Highly motivated and detail-oriented professional seeking a challenging position to leverage strong analytical and problem-solving skills in designing, developing, and maintaining cutting-edge software solutions. Eager to apply comprehensive knowledge of programming languages and software development methodologies to drive success in a collaborative and growth-oriented environment.

KEY EXPERTISE

C C++ Python HTML CSS Javascript AngularJS MySQL Tableau Visual Studio Power BI Bootstrap
MS Office Data Structures Algorithms DBMS Software Development Operating Systems PHP Git Github

EDUCATION

Indian Institute of Technology, Mandi M.S. Research - Systems Engineering and Theoretical CS CGPA: 7.50 / 10	2020 - 2024
Ramrao Adik Institute of Technology B.E. - Information Technology (Full Time) CGPA : 8.33 / 10	2014 - 2018
Pace Junior Science College, Thane 12 th HSC Percentage: 81.38 / 100	2014
DAV Public School, Airoli 10 th CBSE CGPA: 10 / 10	2012

AWARDS AND SCHOLARSHIPS

- Secured Second runner-up in Project Deep Blue-Season 3 held by Mastek Ltd. in the year 2018
- Secured Scholarship of higher education from MSBSHSE in the year 2014.

INTERNSHIPS

Mastek Ltd. Project Trainee Key Skills: AngularJS Node.js Express.js MySQL Successfully completed Internship at Mastek Ltd. by working on devising a recruitment system for the organization.	12 Jun, 2018 - 13 Jul, 2018
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PROJECTS

Frequency estimation in large datastream using Count Min Sketch

Key Skills: Python

- Devised an algorithm to estimate the frequency of a large stream of data using Count Min Sketch.
- It uses a customizable data structure to provide own hash functions and the number of buckets.
- The results were validated using RMSE (Root Mean Square Error) metric on the transaction dataset available from University of Antwerp.
- Impact: The devised algorithm can minimize memory greatly and avoid equality checks.

Teaching Learning System

Key Skills: Uppaal Software

- Built a project which involved booking rooms for lectures by the faculty in the institute using Uppaal Software.
- It allowed the faculty to book rooms for specific time slots which was managed by a manager.
- Impact: It helped in smooth functioning of lecture schedules in the institute and issue such as overbooking was handled properly.

Optical Character Recognition(OCR)

Key Skills: Python MySQL Flask HTML CSS

1. Developed an OCR system to recognize English handwritten alphabets and numbers from words in a sentence.
2. Our solution using neural network achieved 84% accuracy rate when compared with standard dataset taken from EMNIST.
3. Utilized Flask for web deployment and MySQL for database management.
4. Impact: Enabled NGOs to digitize handwritten documents, improving data accessibility.

Character Recognition Using Neural Network

Key Skills: Python MySQL Flask HTML CSS

1. Built a character recognition model using neural network to recognize English Handwritten Alphanumeric Characters.
2. Our solution using neural network achieved 86.4% accuracy rate when compared with standard dataset taken from EMNIST.
3. Impact: A paperless environment is created by using this method of Character Recognition.

Website on Educare

Key Skills: HTML CSS SQL Javascript

1. Built a responsive website for engineering students to study their subjects with ease by providing videos, reference books etc.
2. Impact: It helped students revise their subjects with ease before semester exams.

PUBLICATIONS / RESEARCH / WHITE PAPERS

Optimizing Comparisons in the Construction of Insertion Tableau for Permutations

Key Skills: C++ Visual Studio Data Structures Algorithms

Devised an improved algorithm to minimize the number of comparisons required in the construction of insertion tableau from the permutation(σ). The number of comparisons mainly take place in searching for a position where the next element can be inserted in the Insertion tableau. The proposed algorithm works $\approx 30\%$ better than Standard RSK with Binary Search (NBS) and $\approx 35\%$ better than Fast RSK by Tiskin.

ACHIEVEMENTS

- o Secured AIR 2327 in GATE (CS) with 97.61 percentile in the year 2020.
- o Secured AIR 45 in JEST with 93.72 percentile in the year 2020.
- o Secured 5th rank in 10th standard at school level in the year 2012.

ASSESSMENTS / CERTIFICATIONS

Microsoft Technology Associate

Microsoft Technology Associate in Security Fundamentals

POSITIONS OF RESPONSIBILITY

Treasurer

RAIT Alumni Association

- Organized Alumni Meet, Talks, Events for the betterment of student community.

Event Head

National Level Technical Paper Presentation

- Successfully organized and led the event.

SEMINARS / TRAININGS / WORKSHOPS

Oracle Certified Professional Java Programmer Institute Name: Ramrao Adik Institute of Technology

Key Skills: Java

Oracle Certified Professional Java Programmer Training

Security Assets for Hacking Anticipation

Institute Name: Ramrao Adik Institute of Technology

Key Skills: Ethical Hacking

Worked on Security related tools to understand the different security threats for a system and how to use the tools to avoid them.

Technical Programming Skills

Institute Name: Ramrao Adik Institute of Technology

PERSONAL INTERESTS / HOBBIES

- Reading fiction/non-fiction books
- Traveling
- Sketching

WEB LINKS

- Github - <https://github.com/shwetagodse/>