

# Prathamesh Saraf

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## EDUCATION

### INDIAN INSTITUTE OF SCIENCE

M.TECH (RES) IN COMPUTATIONAL  
AND DATA SCIENCE

May 2023 | Bangalore, India  
CGPA: 8.1 / 10.0

### DKTES' TEXTILE AND ENGINEERING INSTITUTE

B.TECH IN COMPUTER SCIENCE  
May 2020 | Kolhapur, India  
Magna Cum Laude  
CGPA: 9.24 / 10.0

## LINKS

Github:// [s1lv3rj1nx](#)  
LinkedIn:// [s1lv3rj1nx](#)  
YouTube:// [Algorithmist](#)  
Leetcode:// [S1LV3RJ1NX](#)  
Quora:// [Prathamesh-Saraf](#)

## COURSEWORK

System Virtualization  
Distributed Systems  
Operating Systems  
Algorithms and Data Structures  
Computer Networks

## SKILLS

### PROGRAMMING

C++ and OOPs • Python • C

### FRAMEWORKS

RASA • Flask • Django • Pytorch  
Tensorflow • MySQL

## CONTRIBUTIONS

- Founding member of 'Coding Dojo' a programming club at DKTES.
- Conducted workshops on Python programming, which helped non-technical students to crack the TCS assessment.

## CERTIFICATIONS

- Codechef DSA Foundation Level (CCDSA)
- RASA Certified Chatbot Developer

## EXPERIENCE

### SAARTHI.AI | CONVERSATIONAL AI DESIGNER

Aug 2020 - Mar 2021 | Bangalore, India

- Design, develop, and maintain multilingual text and IVR-based chatbots.
- Worked extensively on RASA and modified its open-source code to setup automated testing for conversations
- Setup analytics services for chatbots that help in generating business leads.

## RESEARCH

### IISC CLOUD SYSTEMS LAB | RESEARCHER

Aug 2021 - Present | Bangalore, India

Currently working with **Prof J Lakshmi**(advisor), **Prof Yogesh Simmhan** and **Prof Anirban Chakraborty** to develop intelligent methods for cloud workload orchestration in data centers.

## PROJECTS

### ATOMIC BROADCAST PROTOCOL | PYTHON

- Implemented a distributed token based atomic broadcast protocol as part of Distributed Systems Course Project.
- Demonstrated the protocol using 2 broadcast servers and 2 application servers. Each application message had a global unique sequence number, with acknowledgement for each message packet received.

### TCP SYNCHRONIZATION | PYTHON

- Simulated simultaneous close and open between two processes in two different systems using TCP 3-Way handshake protocol.

### CBOT | RASA | FLASK | REST API | AZURE

- Chatbot developed using RASA to solve queries of C language, integrated with StackOverflow API to resolve complex queries.
- The bot is deployed on the Azure cloud and can be interfaced using Telegram and AimyBox.

## ACHIEVEMENTS

2020	2 <sup>nd</sup> /150	RIT ML Hackathon
2020	5540 <sup>th</sup>	Google Kickstart
2020	4282 <sup>th</sup>	Google Hashcode
2019	2281 <sup>th</sup> /5564	(top 5 %) TCS CodeVita
2019	7 <sup>th</sup> /100	E-Yantra IITB Robotics Competition

## PUBLICATIONS

Prathamesh Saraf, Saswat Shubhjyoti Mallick, Yogesh Simmhan, Anirban Chakraborty, J Lakshmi, "Intelligent Virtual Machine Placement using Deep Reinforcement Learning and Adversarial Imitation Learning"  
(In Review CCGRID 2023)