

# SARVESH SIRAS

sarveshsiras@gmail.com ◇ linkedin.com/in/sarveshsiras/ ◇ sarveshsiras.github.io

## EDUCATION

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### Bachelors in Information Technology (B.Tech.) (CGPA: 7.91)

College of Engineering, Pune (COEP)

2017 - 2021

### Honors in Computer Engineering

College of Engineering, Pune (COEP)

2019 - 2021

Completed additional 12 credits of graduate level courses under the Honors Degree Certificate program

### Higher Secondary School Certificate(Grade XII) (86%)

2017

### Secondary School Certificate(Grade X) (96.6%)

2015

## PROFESSIONAL EXPERIENCE

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### Software Engineer, Mastercard

July 2021 - Present

- Developing high-quality, secure, scalable microservices, event-driven APIs, and REST APIs predominantly using Java, Spring boot, Kafka, and SQL
- Collaborated with cross-functional Product Development teams to build, scale and support software products by following the Scaled Agile Framework

### Summer Intern, Mastercard

May 2020 - June 2020

- Worked with the Operations and Technology team to develop a REST application using technologies like Spring-boot, Java, React, and H2 Database
- Developed a mocking framework using Wiremock API to enable Rapid Application Development that reduced development time by 50%

## ACADEMIC PROJECTS

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### Digitization of Invoices

Aug 2020 - May 2021

(Tech Stack: Python, CNN, Tesseract, OpenCV, PyTorch, Pillow, Flask, HTML, CSS, JavaScript)

- Employed Computer Vision techniques to digitize paper-based invoices with tables into excel sheets with 84% accuracy
- Applied Machine learning models to accurately map the invoice data into an excel sheet
- Trained Convolutional Neural Network models and devised image processing techniques to detect table and process text, respectively

### Evaluating a politician's popularity

Feb 2019 - May 2019

(Tech Stack: Python, Machine Learning, Tweepy, Natural Language Processing, Sentiment Analysis)

- Determined a politician's popularity using tweets mentioning them during the general election campaigning in 2019 of the world's largest democracy
- Tweets gathered via Twitter API were filtered and tokenized to extract relevant data
- Analyzed the extracted data using Sentiment Analysis techniques and Machine learning models to conclude about the politician's popularity

### Heap Manager

Aug 2018 - Nov 2018

(Tech Stack: C, Unix programming, brk and sbrk sys calls)

- Developed a set of C functions like malloc, calloc, realloc and free, to manage the system heap memory effectively
- Designed a combination of buddy and free-list type memory allocators to allocate and manage the system heap
- Used in the campus tech fest app to optimize its memory usage

## File Transfer Protocol

Aug 2019 - Nov 2019

(Tech Stack: Python, Socket Programming)

- Developed a secure terminal-based bidirectional File Transfer Protocol application for transmitting files over the network using a TCP/IP connection
- Implemented the transfer of multiple files simultaneously using multi-threading.
- Built a locking mechanism to prevent modification of existing files under process

## SKILLS

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Languages	C, C++, Python, Java, SQL, HTML, CSS, JavaScript, PHP
Technologies and Frameworks	Data Structures, RDBMS, Flask, Spring Boot, Docker, GIT, OpenCV Machine Learning, Natural Language Processing, Cloud Computing, Jenkins, J2EE, Object Oriented Programming, Distributed Systems
MOOCs	Specialization in Python by University of Michigan (Coursera) Deep Learning and Neural Networks by Andrew Ng (Coursera)

## LEADERSHIP AND VOLUNTEERING

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### Pro Bono Consultant, Bal Utsav

- Managed a team of eight over the 10-week program as the team lead to develop social impact solutions to support Bal Utsav (an NGO supporting the education of poor children in India)
- Formulated communication strategies with a strong focus on digital visibility that helped Bal Utsav expand its reach by ten times

### Head, Bhau's Innovation and Entrepreneurship Cell

- Led the team that was responsible for the organization and scheduling of Pune Startup Fest, which witnessed a convergence of 200 startup exhibitors, 100+ investors, and a crowd turnover of 20k+ people
- Responsible for promoting the spirit of innovation and entrepreneurship among my fellow students

## EXTRACURRICULAR

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- Computer Society of India (Student Member)
- COEP Boat club team member
- Playing Chess

## CONTACT INFORMATION

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**Mobile:** +91 94053 91265

**Mailing Address:** Gangavatran, Lokmanya Nagar, Parbhani - 431401, India.