

Sakshi Sandeep Sitoot

Email: ssitoot@iu.edu | Phone: +1 - (484) 716-4083 | LinkedIn: [linkedin.com/in/sakshi-sitoot/](https://www.linkedin.com/in/sakshi-sitoot/) | Location: Bloomington, Indiana

EDUCATION

Master of Science, Computer Science

Indiana University, Bloomington

Aug 2022 - Present

GPA: 3.66/10

Relevant Coursework: Applied Algorithms, Applied Machine Learning, Elements of Artificial Intelligence, Topics in Data Science (Time Series Analysis), Applied Database Technologies, Software Engineering

Associate Instructor for CSCI-C 212 : Introduction to Systems Programming

Jan 2023 - Present

Bachelor of Engineering, Information Technology

Savitribai Phule Pune University

Jun 2015 - Jun 2019

GPA: 8.38/10

Relevant Coursework: Data Structures & Algorithms, Object Oriented Programming, Cloud Computing, Data Science & Big Data Analysis, Machine Learning, Computer Networking, Database Management Systems

TECHNICAL SKILLS

Programming Languages: C, C++, Java, Spring Boot, Python, Shell Scripting, R

Web Development: HTML, CSS, JavaScript, React, Bootstrap, Angular, NodeJS

Databases: SQL, MySQL, MongoDB, Oracle, Postgres

Data Analysis Libraries: NumPy, Pandas, Scikit-learn, TensorFlow, Keras, Matplotlib, SciPy

DevOps and Cloud Services: Apache Tomcat, AWS Cloud, JBoss, Jenkins, Maven, Jira, Github, Azure

WORK EXPERIENCE

Tata Consultancy Services Limited, Mumbai (Digital Cadre) | Role – Software Developer

Jun 2019 - Jul 2022

- Engineered an all-in-one full stack Global Data Manager for TCS iON, automating bi-weekly updates of bank-related data from the Reserve Bank of India's website, achieving a 6x reduction in labor hours and optimizing operational productivity.
- Formulated and integrated a Concurrent Application Access Blocker application, Heartbeat, preventing duplicate user logins and logging out inactive users by sending heartbeats as a REST API, eliminating 18% of security incidents.
- Spearheaded the Login Filter for Distributed DC Architecture project which catered to 10+ major dependent applications, redirecting users to the correct URL, and securing a Special Initiative Award for early deployment.
- Orchestrated the deployment of an in-house Captcha Service for TCS iON, widening its application across 8 different login pages.
- Collaborated with the Jenkins team and Amity client in Pune to modularize Wildfly-based applications by shifting 300+ critical framework jars and third-party jars to server modules successfully, earning client appreciation for early completion.
- Mentored six new team members with their onboarding and helped them comprehend the iON architecture.
- Piloted the Distributed DC architecture project with Manufacturing and FnA units in multiple cities, collaborating with more than fifteen teams and business divisions.
- Developed a comprehensive suite of over 35 custom biz services for Bank of America, providing seamless access to TCS Framework-related APIs through URLs.

Prompt Software Consultants, Indore

Dec 2017 - Jan 2018

Software Developer Intern

- Contributed to the maintenance of Aristo Pharmaceuticals' pan-India billing and invoicing system as a full-stack software developer intern; system used by approximately 20 manufacturing units.
- Reduced data entry time for sales by 3x using a Java Swing Desktop Application; increased process accuracy by eliminating manual errors.

PROJECTS

- Devised a hybrid algorithm from PSO and AFSA for MR image segmentation to detect brain tumors with a projected accuracy rate of 91% which was published in the International Journal of Innovative Research in Science, Engineering and Technology. (October 2018 Edition) [\[Link\]](#)
- Streamlined the college cafeteria's food ordering process through a dedicated web application, eliminating long queues and providing a convenient platform for online ordering, payment and real-time notifications which resulted in 40% reduction of manual orders.
- Led the development of Healthmate, a transformative web application in the fitness industry. Enabled customer-professional engagement, goal tracking, resource access, and program participation; achieved a 40% increase in user engagement.
- Applied a CNN model using Keras for image classification with 86% accuracy, using Sequential method and layers like Conv2D, MaxPooling2D.

TRAININGS

- Received a Certificate of Excellence in a 6-week training program focused on developing Android applications, constructing User Interfaces, and successfully created a music Android Application. (Jun 2018 – Jul 2018)
- Successfully completed a two-month Web Development Program Training Program that included HTML & CSS, Bootstrap, SQL, and PHP modules. (Mar 2017 – Apr 2017)
- Earned a monetary grant from TCS upon completing the six-month Elevate Wings - 1 program, mastering technologies like Java, Spring Boot, HTML, CSS, SQL, and object-oriented programming.