

# SARVESH SIRAS

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## EDUCATION

<b>Carnegie Mellon University</b>	Pittsburgh, PA
Master of Information Systems Management	2024 - 2025
<b>College of Engineering Pune (COEP)</b>	Pune, India
Bachelors in Information Technology (B.Tech.) (GPA: 3.61/4.0)	2017 - 2021

## PROFESSIONAL EXPERIENCE

<b>Software Engineer II, Mastercard</b>	July 2021 - July 2024
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- Designed and Developed highly scalable, secure, fault-tolerant micro-services capable of handling transactions per second using Java, Spring boot, Kafka, and SQL
- Played a vital role in the migration of Monolithic applications to Micro-services architecture which had better performance and scalability
- Collaborated with stakeholders, product managers, architects, and engineers to define project requirements, plan Agile sprints, and deliver high-quality software on time
- Managed multiple projects and priorities in a fast-paced environment, participating in code reviews and providing constructive feedback.

<b>Summer Intern, Mastercard</b>	May 2020 - June 2020
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- 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%

## RESEARCH AND PROJECTS

### Digitization of Invoices

- Employed Computer Vision techniques to digitize paper-based invoices into excel sheets with 86% accuracy
- Trained Convolutional Neural Network models to accurately map the invoice data and devised image processing techniques to detect table and process text, respectively
- Published the project's findings in a research paper titled **A Deep Learning Approach for Digitization of Invoices** in the IEEE journal

### Evaluating a politician's popularity

- Determined a politician's popularity using tweets mentioning them during the general election campaigning in 2019 of the world's largest democracy
- Analyzed the extracted data using Sentiment Analysis techniques and Machine learning models to conclude about the politician's popularity

## LANGUAGES AND TECHNICAL SKILLS

<b>Languages</b>	C, C++, Python, Java, SQL, HTML, CSS, JavaScript, PHP
<b>Technologies and Frameworks</b>	Data Structures, RDBMS, Flask, Spring Boot, Docker, Git, OpenCV Machine Learning, Natural Language Processing, Jenkins,
<b>Certifications</b>	IBM Machine Learning Professional Certificate, Specialization in Python by University of Michigan, Deep Learning and Neural Networks (Coursera)

## LEADERSHIP AND VOLUNTEERING

**Pro Bono Consultant, Bal Utsav**  
**Head, Bhau's Innovation and Entrepreneurship Cell**