SARVESH SIRAS

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EDUCATION

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

PROFESSIONAL EXPERIENCE

Software Engineer II, Mastercard — July 2021 - July 2024

- 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
- Utilized tools like Splunk and Dynatrace to analyze the performance of critical features, identifying and resolving bottlenecks to enhance overall system efficiency threefold
- Collaborated with stakeholders, and engineers to define project requirements, plan Agile sprints, and deliver high-quality software on time; participated in code reviews and provided constructive feedback

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%

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

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, Jenkins,
Certifications	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