

# SAKSHI GUPTA

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Sakshi Gupta

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## EXPERIENCE

### Credit Suisse | SDE 2 - Full stack Developer | Full-Time

Apr. 2022 - Aug. 2023

- Reduced server overhead by 30% through developing a reusable Direct Acyclic Graph (DAG) system for dynamic JSON-based workflows.
- Facilitated towards development of cutting-edge, automated trade booking system using NLP and Naive Bayes Classifier boosting client adoption to 90%
- Created a robust and reusable Orchestrator capable of seamless data polling from MongoDB or Kafka on need basis
- Migrated M365 Smart Mail Manager System to OpenShift, creating Docker images and Jenkins pipelines with Helm charts, enhancing resource management by 25%.
- Tools:** Python, MongoDB, Oracle, Kafka, Angular, REST API's, Flask, Tensorflow, Bash, Docker, Helm, Jenkins, Openshift

### Credit Suisse | SDE 1 - Full stack Developer | Full-Time

Jul. 2021 - Apr. 2022

- Developed Tax Extractor System that extracted text from W8/W9 forms of the clients using Natural Language Processing
- Authored scheduler-based REST APIs to achieve 100% automation for statistical report generation
- Automated data extraction from lengthy PDFs using pdf-parser and Camelot, reducing manual work by 50%.
- Played a critical role in the adoption of Smart Mail Manager by overseeing the successful onboarding of multiple clients.
- Ensured Test Driven Development and maintained 85%+ test coverage
- Tools:** Python, MongoDB, Oracle, Kafka, Angular, REST API's, Git, Bash, JIRA, pdfparser, tesseract, OCR, NodeJS, Typescript

### Mymo IT Solutions | Python Intern | Internship

Jan. 2020 - Mar. 2020

- Implemented web scraping-based scheduler for Read the Docs website to generate dynamic table of contents for projects drastically reducing manual intervention to 50%
- Tools:** Scrapy, Python, Gitlab

### Persistent Systems | Summer Trainee | Internship

Jul. 2019 - Jul. 2019

- Selected for a highly competitive program, acquiring valuable insights into Functional Programming and automata theory.
- Tools:** Gofer, Emacs

## EDUCATION

### University of Birmingham

Sep. 2023 - Sep. 2024

Master of Science - Advanced Computer Science

### Savitribai Phule Pune University

Aug. 2017 - Jul. 2021

Bachelor of Engineering - Computer Engineering

GPA - 9.76/10

## PROJECTS

### Artificial Vision for Visually Impaired

- Created a voice-enabled application for visually impaired individuals that utilizes Visual Question Answering (VQA) techniques to answer questions based on images and OCR technology to extract and read text out loud to the user
- Tools:** Python, Flask, Anvil, Ionic, Angular and PyTorch

### Facial Recognition Based Attendance Marking System

- Developed a desktop-based efficient attendance marking system with data analysis graphs for faculty members offering a single platform for recording student data
- Tools:** Python, TensorFlow, MongoDB, PyQt5, Matplotlib

### Brain Tissue Segmentation Using T1/T2 MRI Images

- Implemented advanced image segmentation techniques using thresholding, active contour, watershed, and k-means algorithms, and conducted comparative analysis to segment six layers of brain tissue in MRI images.
- Tools:** Python, OpenCV

### RFID based Smart Trolley

- Built a smart shopping cart that uses RFID to mark the price of added items and generate the final receipt
- Tools:** Raspberry Pi, RFID, Python, C#

## TECHNICAL SKILLS

**Language and Frameworks:** Python, C++, .NET, HTML5, CSS, Bash, Angular, Kafka, Flask, Scrapy, Selenium, GIT, REST APIs, Docker, Jenkins, Openshift, Helm

**Databases:** MongoDB, MySQL

**Concepts:** Machine Learning, Database Management, Operating Systems, Computer Networking

## POSITIONS OF RESPONSIBILITY

### University of Birmingham | Teaching Assistant, Algorithms and Programming

Oct. 2023 - Present

- Delivered data structures and algorithms classes in Python for students, including sessions at the Dubai campus.

### University of Birmingham | MSc Advanced Computer Science Student Ambassador

Nov. 2023 - Present

- Managed an International level paper presentation event

### Computer Engineering Student Association | Professional Development Cell Head

Jul. 2019 - Aug. 2020

- Led a team to organize tech sessions for 900+ students, winning the 2020 Best Student Chapter Award

## CERTIFICATIONS

- [NVIDIA] Computer Vision practitioner
- [Google] AI Explore ML: Beginner and Intermediate
- [DeepLearn.ai] Convolutional Neural Networks
- [DeepLearn.ai] Natural Language Processing
- [Udemy] Angular Certified Full Stack Developer
- [Udemy] Querying Microsoft SQL Server

## ACHIEVEMENTS

- RAVE Gold Bar** Received 3 bars for Meritocracy, Accountability and Partnership in Credit Suisse **2021-23**
- Innovator of the Year** Recognized at Global level in Credit Suisse for creating the DAG System **2022**
- University Rank holder** Ranked amongst top 10 scholars in Pune University **2019-21**
- IET Hackathon Winner** at National Level for the project Artificial Vision for Visually Impaired **2020**