

# SALONI GANDHI

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## EDUCATION

### Indiana University, Bloomington, Indiana

Aug 2024 - May 2026

Master of Science in Computer Science | GPA- 3.9/4.0

**Coursework:** Applied Algorithms, Applied Machine Learning, Computer Networks, Advanced Database Concepts, Software Engineering, Information Visualization.

### Maharashtra Institute of Technology - World Peace University, Pune, India

Jul 2018 - Jul 2022

Bachelor of Technology in Computer Science and Engineering | CGPA- 3.8/4.0

## WORK EXPERIENCE

### Union Bank of Switzerland (UBS)

Pune, India

**Software Engineer** (Group: Market Access - Investment Banking)

Jul 2022 - Jul 2024

- Architected a robust automation framework leveraging Cucumber Tests, enabling the execution of over **1,000+ test cases** for the order flow management application; enhanced overall system reliability by identifying and resolving critical bugs early in the development cycle.
- Automated end-to-end testing for all ETD APAC exchange flows across seven countries, including Hong Kong, Australia, Japan, Singapore, India, Korea, and China; reduced testing time by **80%**, saving **10 person-days per test cycle**.
- Devised an intuitive Python-based tool that aggregates order audit trails from disparate servers; adopted as the standard log scraping utility by all teams, facilitating efficient data retrieval for over **50 users monthly**.

**Intern** (Group: Market Access - Investment Banking)

Jan 2022 - June 2022

- Created user-friendly dashboards using Java which are now included in the weekly team report, providing valuable insights from complex data.
- Designed and executed a VueJS and Java-based Graphical User Interface (GUI) to identify discrepancies in multiple FIX (Financial Information Exchange) messages, improving financial data processing accuracy by **95%**.

**Summer Intern** (Group: Technology Operation Center - Investment Banking)

Jun 2021 - Aug 2021

- Engineered a comprehensive user interface for 'Digi TOC' (a generic workflow automation tool which helps improve Mean Time to Resolution) enhancing the ease of onboarding automation; this initiative led to a **25% decrease in turnaround time** for user-assisted tickets while maintaining high customer satisfaction levels.
- This helped eliminate manual operations and reducing SME dependency, and have audit of automation being configured, along with enhanced end-user experience.

### Savitribai Phule Pune University

Pune, India

**Intern**

Apr 2020 - Nov 2020

- Launched an innovative e-learning application that allows for real-time quiz modification; user-friendly interface has been adopted by 20+ educational institutions, leading to a **30% increase in student participation**.
- Built a scalable Node.js API for seamless front-end and back-end communication, supporting real-time data retrieval for 2,000+ users.

## PROJECTS

### Measurement of retinal vessel caliber and progression of retinal diseases using OCT and fundus images.

Apr 2022- Jun 2022

- Integrated a highly scalable AI-driven model for analyzing retinal images, decreasing processing time by 40%, and enabling faster diagnosis, which can potentially lead to improved patient outcomes in eye care.
- Employed a real-time image classification system utilizing a customized ResNet18 CNN model in TensorFlow with **97%** accuracy.

### Real Time Sign Language Detector and Translator

May 2021 - Jul 2021

- Developed a real-time Sign Language detector using TensorFlow and SSD module of object detection API achieving **95%** accuracy in recognizing various English words and phrases using a personal database of over 20,000 training images.
- Integrated OpenCV to activate the computer's camera for detecting user hand gestures.

### Code Converter

Oct 2020 - Nov 2020

- Built a comprehensive code conversion tool that automated the transformation of C language code into Java and Python; tool usage has led to a 25% decrease in coding errors and improved overall project delivery times
- Implemented an Abstract Syntax Tree for intermediate code generation, handling **1,000+ lines per minute** and improving debugging and maintenance.

## TECHNICAL SKILLS

**Programming Languages:** Python, C++, SQL, Java, C, JavaScript

**Frameworks/Tools:** TensorFlow, PyTorch, Jupyter Notebooks, Tableau, PowerBI, Pandas, NumPy, Matplotlib, scikit-learn, Anaconda, Docker, Kubernetes

**Skills:** Data Visualization, Statistical Modeling, Data Wrangling, Machine Learning, Deep Learning, Big Data, Agile

**Cloud Platforms:** Microsoft Azure, Amazon Web Services (AWS)

**Certifications & Training:** UBS Certified Engineer (Earned 10 Technical badges, 3 Cultural badges, 1 peer and 1 management badge)

[[Certificate](#)], AI-900 [[Certificate](#)]

**Awards:** LOR by head of Computer Engineering, SPPU | Nominated by UBS India Stream to represent my team and Group CDIO IB India at the UBS leadership Conference.

## LEADERSHIP & INVOLVEMENT

- Math Tutor** at ASC, Bloomington, Indiana: Led study sessions for 20 students, enhancing math comprehension and collaboration.
- Organizer**, Tech Talk for UBS Women in Tech, Pune: Secured \$10,000 in sponsorships from 3 local tech firms, boosting event quality.