

# Samyak Kashyap Shah

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## EDUCATION

### Indiana University

Bloomington, IN

Master of Science in Computer Science (GPA: 3.72/4)

Expected: May 2025

**Courses:** Applied Algorithms, Software Engineering, Applied Machine Learning, Elements of AI, Knowledge Based AI.

### University of Mumbai

Mumbai, India

Bachelor of Technology in Electronics and Telecommunication Engineering

August 2019 – May 2023

**Courses:** Data Structures and Algorithms, Database Management, Machine Learning for Signal Processing, Big Data Analytics

## TECHNICAL SKILLS

**Programming Languages** – Python, JavaScript, SQL, Java, C++, C, Rust

**Web Technologies** – HTML, CSS, React, Sass, Node, Express, Angular, Django

**Database Languages** – MongoDB, MySQL, PostgreSQL, Firebase

**Frameworks** – TensorFlow, PyTorch, SkLearn, OpenCV, Pandas, NumPy, Matplotlib, Hadoop, Spark, Maven

**Tools** – Git, JIRA, Putty, Figma, Linux, MATLAB, Azure, AWS, Docker, Kubernetes

## PROFESSIONAL EXPERIENCE

### Software Developer Intern

May 2024 - Present

*Soopra.ai*

*San Francisco, USA*

- Developed a chat widget in **React** and **Django**, which allows new users to leverage existing AI system and use their AI personas on personal websites, as a feature, that increased company outreach by **80%**.
- Implemented security features in the backend, which checks for whitelisted websites by the paid user, decreasing unauthorized injections by **90%**.

### Software Developer Intern

July 2021 - August 2021

*Continuum*

*Mumbai, India*

- Implemented **pre-script** and **post-script** features using **Angular JS** and **Java**, that allows users to select scripts from the dropdown tool and run them before or after server backup, thus increasing user control by around **50%**.
- Created **timer control** options for users, to qualify the runtime of scripts, that terminates execution of scripts after specified time thereby reducing the risk during script processing by almost **90%**.

## PROJECTS AND PUBLICATIONS

### Ignition

August 2023 - December 2023

*MongoDB, Express, React, Node, Cloudinary, AWS*

- Designed a learning management system for university students and professors, to achieve organizational level flow for daily activities with a calendar view in dashboard, increasing student awareness by **90%**.
- Incorporated MongoDB and API using **Express JS** along with lazy loading to reduce latency by **30%**.

### Surveillance System with Violence Detection

August 2022 - May 2023

*Python, OpenCV, SkLearn, TensorFlow*

- Developed a scalable computer vision software allowing business owners to supervise locations, reducing manual load by **50%**.
- Expanded feature set by utilizing **MobileNetV2**, a deep learning architecture, to train a **violence detection model**, that uses real-time frames to predict violence, with a **95%** training accuracy, and **0.96** f1-score.
- Published a paper in the DJ Spark Journal, **ISBN: 978-93-5777-300-3** in 2023.

### Plant Health Detection using UAV

August 2021 - May 2022

*TensorFlow, SkLearn, ReactJS, Firebase*

- Trained a model on **ResNet50**, a deep learning algorithm, with personally collected plant dataset to assist farmers in detecting plant diseases effectively, with a **93%** training accuracy and **91%** validation accuracy.
- Designed a website that provides valuable insights, including geographical positioning of the plant, disease type and other metrics, thereby reducing workload by **60%**.
- Published a paper regarding the same model in the DJ Strike Journal, **ISBN: 978-93-5578-944-0** in 2021.

## ACHIEVEMENTS AND CERTIFICATIONS

- Appointed as **Creatives Head** for DJS Racing, a team of **100+** members, from 2022-2023; responsible for managing frontend of official website and training a team of 7 to create livery of the formula student car.