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.js, Express, Flask, Angular, Django
Database Languages – MongoDB, MySQL, PostgreSQL, Firebase
Frameworks – TensorFlow, PyTorch, Scikit-learn, OpenCV, Pandas, NumPy, Matplotlib, Hadoop, Spark, Maven
Tools – Git, JIRA, PuTTY, Figma, Linux, MATLAB, Azure, AWS, Docker, Kubernetes

PROFESSIONAL EXPERIENCE

Graduate Teaching Assistant   May 2024 – Present
Indiana University   *Bloomington, IN*
- Delegated for managing course, **Data Science OnRamp**, consisting of six mini courses: Data Processing, Machine Learning (ML) with Python, ML with R, ML with PySpark, Kaggle Cases and Deep Learning Principles.
- Graded **assignments** and provided **comprehensive feedback** while offering guidance and support to enhance students' understanding of core concepts in data processing, machine learning and deep learning.

Software Developer Intern   June 2024 – August 2024
Soopra.ai   *San Francisco, CA*
- Developed a chat widget in **React** and **Flask**, which allows new users to leverage existing AI system and use their AI personas on personal websites, as a feature, increasing company outreach by **80%**.
- Implemented backend security features to validate whitelisted websites for paid users, reducing unauthorized injections by **90%**.

Software Developer Intern   July 2021 - August 2021
Continuum (ConnectWise)   *Mumbai, India*
- Developed **pre-script** and **post-script** features using **Angular JS** and **Java**, allowing users to select scripts for execution **before** or **after server backup**.
- Created **timer control** feature that qualifies the runtime of scripts by terminating script execution after a specified time, reducing the risk of prolonged script processing by nearly **90%.**

PROJECTS AND PUBLICATIONS

Ignition   August 2023 - December 2023
MongoDB, Express, React, Node, Cloudinary, AWS
- Designed a learning management system (LMS) for university students and professors, achieving organizational flow for daily activities featuring a dashboard with calendar view, increasing student engagement by **90%.**
- Incorporated MongoDB, API, Express.js and Cloudinary, allowing **upload** and **download** of course materials.

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 monitoring and physical labour by **50%**.
- Expanded feature set by utilizing **MobileNetV2**, a deep learning architecture, and training a **violence detection model,** that uses real-time frames to predict violence, achieving a **95%** training accuracy, and **0.96** f1-score.
- Published research in the DJ Spark Journal, **ISBN: 978-93-5777-300-3** (2023).

ACHIEVEMENTS AND CERTIFICATIONS

- **Creatives Head**, DJS Racing (2022-2023): Led a team of 7 to manage official website frontend and train them to design the livery of the formula student car.
- Certified in **Front End Web Development with React JS** from The Hong Kong University of Science and Technology.