

Saurin Patel

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EDUCATION

M.S. Computer Science, Illinois Institute of Technology Chicago, USA

2023-2025

B.E., Information Technology, Shah And Anchor Kutchhi Engineering College, University of Mumbai, India

Courses- Data Structures Analyses, Database Management System, Data Science and Artificial Intelligence, 2019-2023
Computer Architecture and Organization, Software Engineering, Data Mining. CGPA 8.58/10.00

TECHNICAL SKILLS

- Programming Languages: C, C++, Python, JAVA, JAVASCRIPT, Node.js, React.
- Databases: SQL, NodeJS.
- Cloud-Based Technologies: Azure, AWS and Docker.
- Skills: Algorithms, Tableau, Power BI AI, Backend, DevOps, Automated Testing, Machine Learning, Deep Learning, Git, Microsoft Office, Project Management, Interpersonal, Presentation, Strong communication, Business and Financial acumen.

PROFESSIONAL EXPERIENCE

Research Intern, University Of Naples Italy, Naples, Italy

September 2022-November2022

- Spearheaded the data preprocessing phase, ensuring the quality and relevance of input data for the CNN model. Cleaned, standardized, and augmented datasets, leading to a 25% improvement in model performance and precise land cover classification. Implemented a region-based training and verification approach for a Land Use and Land Cover Classification project, resulting in 92.9% accuracy and reducing misclassification errors by 40%.
- Presented research findings at team meetings, effectively communicating complex technical concepts. Actively participated in weekly knowledge-sharing sessions, staying abreast of the latest advancements in machine learning, remote sensing, and geospatial technologies.

Machine Learning Intern, Shah And Anchor College, Mumbai, India

August 2021-February2022

- Conducted an in-depth analysis that revealed a significant performance improvement over standard techniques, achieving a remarkable 89.2% accuracy in identifying and precisely locating brain tumors in MRI images. Employed cutting-edge technologies such as Python, TensorFlow, and OpenCV to optimize and enhance the performance of the YOLOv7 model for improved accuracy.
- Created and implemented a comprehensive research roadmap focused on advancing medical imaging technologies for brain cancer diagnostics; collaborated with renowned medical professionals to identify and validate key areas for improvement, resulting in enhanced patient outcomes and increased adoption rates among medical practitioners.

Web Developer and Quality Assurance Intern, MoPharma Solutions Ltd,

August2020-February2021

- Contributed to pre-project analysis and technical assessments for an optimized user interface. Executed hands-on testing on a live website, meticulously crafting test cases, and promptly reporting and tracking identified bugs.
- Oversaw project management and leadership team of four, Designed, built components and authored web pages using AEM. Got familiar with Agile/Scrum methodologies.

ACADEMIC PROJECTS AND CERTIFICATIONS

- **Microsoft Certified:** Azure Fundamentals, **Microsoft Certified Systems Administrator:** Data Engineering with Azure, **Google:** Advanced Data Analytics.

Plant Disease Classifier - Python, Tensorflow, FastAP, React | [website](#)

- Developed an image processing model to identify signs of sick leaves, which involved data processing, augmentation, and extraction. Utilized Convolutional Neural Networks to categorize processed leaf images into two categories - potato early blight and late blight.

University Prediction System - Python, Machine Learning | [website](#)

- Analyzed data from over a thousand students using various Python libraries, to predict University admissions based on factors such as GPA, test scores, research paper, SOP, and LOR ratings.

Placement Management System App - Java, JDBC, Swing GUI, and Core Java | [website](#)

- Crafted a Placement Management System App with Java, JDBC, Swing GUI, and Core Java to enable seamless interaction between students and companies.

Instagram Clone - [website](#):

- Developed an Instagram clone with HTML, CSS, Firebase, and React JS, incorporating user authentication for enhanced security.

EXTRACURRICULAR ACTIVITIES

- Head of the IT Department at Shah And Anchor Kutchhi Engineering College encouraged students to participate in various technical events and hackathons.
- Functioned as the Co-event Head and point of contact of the Organizing Committee for the technical festival 'Icon'. Planned and organized technical and social events, at Shah And Anchor Kutchhi Engineering College. (2022)