

# Rishabh Patel

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## ABOUT ME

AI & IT professional with a background in AI, cybersecurity, and enterprise IT support. Experienced in leveraging Python, TensorFlow, Scikit-learn, OpenCV, and AIF360 for building and deploying ML solutions. Skilled in data visualization and analytics using Pandas, NumPy, and Matplotlib. Skilled in endpoint security, IAM, and compliance (GDPR/HIPAA) through healthcare IT roles, administering systems like Active Directory, SCCM, Intune, and Citrix Cloud. Recognized for reliable support, secure deployments, and delivering user centric technical solutions across diverse infrastructures.

## WORK EXPERIENCE

### Technical Services Analyst (Zone 1)

HCA Healthcare

Oct 2025 — Jan 2026

London, UK

- Enhanced infrastructure reliability by managing full device life cycle, ensuring 100% compliance with HCA security standards and driving continuous IT process improvements; earned 5 official recognitions for outstanding IT support.
- Deployed and configured 200+ clinical and administrative devices, streamlining imaging workflows with standardized corporate builds and reducing setup time by 30%.
- Resolved 95% of end-user tickets within SLA, troubleshooting hardware, peripherals, and network/application issues to minimize downtime and maintain high service quality.
- Administered enterprise systems (Active Directory, SCCM, Intune, Jamf Pro, Citrix Cloud, Cisco ISE), improving identity management and endpoint security across 15+ hospital sites and leveraged operational platforms (Exchange Admin Center, Azure PIM, Dameware, RDP, Zebra Utilities) to optimize system administration and reduce manual overhead.
- Strengthened network resilience by patching data points, assigning VLANs, and ensuring secure and reliable connectivity.

### Patient Access Officer

HCA Healthcare

Jul 2024 — Oct 2025

London, UK

- Managed patient scheduling and registration for 1000+ monthly cases across adult and pediatric services, maintaining accurate records in Meditech/SharePoint with strict GDPR compliance; streamlined insurance workflows by coordinating with providers, quoting, invoicing, and payments, cutting claim turnaround by 15% and reducing outstanding invoices.
- Consistently delivered high patient satisfaction and supported clinical staff in care standards, earning 7 recognitions for accuracy and service excellence; certified in Basic Life Support (Adults & Pediatrics) and the NHS Care Certificate.

### Technical Support Analyst

The Baker's Nest

Oct 2018 — Oct 2021

Vadodara, Gujarat

- Managed IT infrastructure (Windows Active Directory, MS Office Suite), delivering onsite technical support and hardware/software upgrades to ensure 99% uptime and extend device lifecycle.

### Web Developer

The Baker's Nest

Sep 2017 — Oct 2018

Vadodara, Gujarat

- Designed and maintained WordPress/WooCommerce site with integrated payment processing and SEO, driving a 25% increase in online sales and ensuring accurate product cataloging.

### .NET Developer (Internship)

Sannibh Technologies

May 2019 — May 2019

Vadodara, Gujarat

- Developed a booking system in .NET with SQL backend, optimizing database schema to improve query performance.

## EDUCATION

### University of Hertfordshire

MSc - Artificial Intelligence and Robotics with Advanced Research, Distinction

Hatfield, UK

Oct 2021 — Oct 2023

### Sardar Vallabhbhai Patel Institute of Technology

BE - Computer Engineering, Distinction

Gujarat, India

Sep 2016 — Aug 2020

## PROJECTS

### [Healthcare Triage Assistant - End-to-End ML Deployment](#)

- Built an application for non-clinical hospital staff to predict patient triage levels from vitals, enabling better prioritization.
- Trained ML model on Synthetic Medical Triage Priority Dataset (Kaggle) using scikit-learn, pandas, seaborn, joblib.
- Deployed full stack with FastAPI (backend), Streamlit (frontend), Docker + Render (deployment).
- Integrated OpenRouter API for concise GenAI explanations of predictions; engineered prompts for token efficiency.

### Detecting and Mitigating Algorithmic Bias in Face Recognition Algorithms: A Research Study

- **Research Aim:** Investigated techniques to detect and mitigate algorithmic bias in facial recognition by designing a gender classification model as a case study.
- **Methodology:** Designed and trained convolutional neural networks (CNNs) on multiple publicly available facial datasets. Conducted an extensive literature review to understand bias origins and fairness challenges within facial recognition.
- **Bias Mitigation:** Implemented the AI Fairness 360 (AIF360) toolkit using reweighting and adversarial de-biasing techniques. Quantitatively evaluated bias reduction using key fairness metrics (disparate impact, statistical parity difference, equal opportunity difference, average odds difference).
- **Results & Contributions:** Achieved a significant decrease in bias (e.g., disparate impact reduced from ~1.034 to ~1.000) while preserving high model accuracy. Addressed ethical, legal, and social implications inherent in deploying facial recognition technologies.

### **Automated Driving Robot Car Simulation using Unity**

- Programmed a car using C# in Unity to drive automatically on a path with turns, blockades, slopes, and angular surfaces using sensors to detect surfaces and blocks while also auto-regulating car speed.

### **COVID-19 Simulation using Netlogo**

- Created a COVID-19 simulation that simulates how the virus is spread, the effects of vaccination/antibodies, and more.
- The purpose was to study the effectiveness of various steps taken to prevent like lockdown, self isolation, and vaccination.

### Controlling Operating System and Applications using Hand Motion Gestures

- Created a Python and OpenCV based system that controls applications and OS in a Linux environment using motion gestures from a laptop webcam based on a gesture recognition model trained using supervised machine learning.
- Application dependent gesture mapping to execute different commands with the use of PyautoGUI.
- Users can add application profiles, allowing them to customize the commands mapped to a gesture.

## **CERTIFICATIONS**

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| <a href="#">Google Project Management Specialization</a> , Coursera                | Dec 2025 |
| <a href="#">Google IT Support Specialization</a> , Coursera                        | Oct 2025 |
| <a href="#">Fundamentals of Deep Learning</a> , Nvidia Deep Learning Institute, UK | Dec 2023 |
| <a href="#">Pandas</a> , Kaggle  | Sep 2023 |
| <a href="#">Introduction to Machine Learning</a> , Kaggle                          | Aug 2022 |
| <a href="#">Python</a> , Kaggle  | Jul 2023 |
| <a href="#">AWS Machine Learning</a> , Coursera                                    | May 2020 |

## **SKILLS**

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- **Programming Languages:** Python, C/C++
- **Data Science & ML Tools:** TensorFlow, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, OpenCV, AIF360, Joblib
- **Concepts:** Machine Learning, Data Wrangling, Prompt Engineering, End-to-End ML Deployment
- **Web Technologies:** HTML, CSS, JavaScript, WordPress, cPanel, SEO, FastAPI, Streamlit
- **Version Control:** Git, GitHub, Bitbucket
- **Containerization:** Docker, Render (cloud deployment), Modular Containerization, Reproducibility
- **Scripting:** Linux Shell Scripting
- **Spoken Languages:** English, Hindi, Gujarati
- **Creative Media:** Video Editing, Graphic Design, Photo Editing
- **Interests & Activities:** Public Speaking (Toastmasters), Home Servers & Automation, OS/ROM Experiments, Formula Racing Enthusiast, Gaming, 3D Art