

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)

Oct 2025 — Jan 2026

HCA Healthcare

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

Jul 2024 — Oct 2025

HCA Healthcare

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

Oct 2018 — Oct 2021

The Baker's Nest

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

Sep 2017 — Oct 2018

The Baker's Nest

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)

May 2019 — May 2019

Sannibh Technologies

Vadodara, Gujarat

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

EDUCATION

University of Hertfordshire

Hatfield, UK

MSc - Artificial Intelligence and Robotics with Advanced Research, Distinction

Oct 2021 — Oct 2023

Sardar Vallabhbhai Patel Institute of Technology

Gujarat, India

BE - Computer Engineering, Distinction

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 reweighing 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

<u>Google Project Management Specialization</u> , Coursera	Dec 2025
<u>Google IT Support Specialization</u> , Coursera	Oct 2025
<u>Fundamentals of Deep Learning</u> , Nvidia Deep Learning Institute, UK	Dec 2023
<u>Pandas</u> , Kaggle	Sep 2023
<u>Introduction to Machine Learning</u> , Kaggle	Aug 2022
<u>Python</u> , Kaggle	Jul 2023
<u>AWS Machine Learning</u> , 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