Ashutosh Yadav

Roll No.: 23035010693
Online B.Sc. (Honours)
Data Science and Artificial Intelligence
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CAREER OBJECTIVE

IT professional with 3+ years in endpoint management and cloud infrastructure, seeking to transition into software development and AI/ML engineering. Quick learner with strong Python, data science, and Azure foundations.

EDUCATION

Degree/Certificate	Institute/Board	CGPA/%	Year
B.Sc. (Hons) in Data Science & AI	Indian Institute of Technology Guwahati	8.5 (Current)	2023 – Present
Senior Secondary (XII)	CBSE Board	87.2%	2021
Secondary (X)	CBSE Board	86.5%	2019

WORK EXPERIENCE

MECM Administrator — Oct 2023 – Present
HCL Technologies Ltd. — *Lucknow, India*

- Managed end-to-end SCCM patching lifecycle — SUG creation, update downloads, and production deployments — while creating daily client health check reports and remediation scripts for patch failures.
- Implemented Windows Autopilot for pre-provisioned deployment in production; captured custom Windows 10 images for product deployment cycles.
- Managed device compliance policies, app deployments, and configuration profiles via Microsoft Intune (MDM/MAM), enforcing security baselines and conditional access across Windows, iOS, and Android.
- Created and deployed app protection policies, device configuration profiles, and Windows update rings; troubleshoot enrollment failures, sync issues, and policy conflicts.
- Administered Citrix Virtual Apps and Desktops environment — session management, infrastructure monitoring, and resolving connectivity and performance issues.
- Performed application onboarding and functional testing across DEV, UAT, and Production environments with Win32 packaging and DEV ring documentation.

Training & Internship Program — Oct 2022 – Oct 2023
HCL Training & Staffing Services Pvt. Ltd. — *Lucknow, India*

- Completed 1-year training and internship program conducted by HCL Training and Staffing Services.
- Gained hands-on experience in VMware, Azure, RDBMS, Active Directory, ITIL, and Networking.

KEY PROJECT / CLIENT ENGAGEMENT

Allianz – Insurance and Asset Management Company — Tools: SCCM & Intune

- Managed end-to-end application onboarding, functional testing, and DEV ring documentation across DEV, UAT, and Production environments.
- Handled SCCM patching lifecycle – SUG creation, update downloads, and production deployments.
- Created, tested, and implemented conditional access policies; deployed remediation scripts for patch failures.
- Implemented Windows Autopilot for pre-provisioned deployments and captured custom Win10 images.
- Performed application packaging using Win32 Content Prep tool and supported SCCM-related technical issues.

ACADEMIC PROJECTS

Plant Disease Classification Using Deep Learning — GitHub

- Built an end-to-end web application for detecting diseases in Potato and Tomato leaves using Convolutional Neural Networks (CNN) with TensorFlow/Keras.
- Trained CNN models on publicly available datasets achieving high classification accuracy across multiple disease categories.
- Developed a RESTful API backend using Python and FastAPI for model inference and image processing.
- Created a responsive React.js frontend with image upload, real-time prediction display, and prediction history features.
- **Tech Stack:** Python, TensorFlow/Keras, FastAPI, React.js, NumPy, Pillow

Sentinel-Sync: Edge-Cloud Collaborative Vision System

- Designed a dual-tier AI architecture for industrial monitoring — edge-based YOLOv10-Nano for real-time object detection at 30+ FPS with selective cloud escalation via Gemini 1.5 Pro for visual reasoning.

- Implemented a "Selective Trigger" mechanism reducing cloud bandwidth costs by ~90% by filtering frames locally based on confidence thresholds and restricted-zone dwell time (>2s).
- Built an asynchronous MQTT/Protobuf communication pipeline achieving <500ms edge-to-cloud latency with FastAPI gateway and Redis caching for event logs.
- Developed a Streamlit dashboard for real-time alert visualization and AI reasoning logs with end-to-end detection-to-alert workflow.
- **Tech Stack:** Python, OpenCV, YOLOv10, TensorRT, MQTT, FastAPI, Redis, Gemini API, Docker, Streamlit

TECHNICAL SKILLS

Languages: Python, C, R, Java, SQL

Data Science & AI: Machine Learning, Data Analysis, Linear Algebra, Optimization, Econometrics

Cloud & Infra: Microsoft Azure, VMware, Active Directory, ITIL, Networking

Tools & Platforms: SCCM (MECM), Microsoft Intune, Windows Autopilot, Win32 Content Prep

RELEVANT COURSEWORK

Data Structures • Algorithm Design & Analysis • Computer System Tools • Data Science • Artificial Intelligence • Linear Algebra • Optimization • Econometrics

LICENSES & CERTIFICATIONS

Certification	Earned On	Expires On
Microsoft Certified: Azure AI Engineer Associate (AI-102)	Feb 2026	Feb 2028
Microsoft 365 Certified: Endpoint Administrator Associate	Jun 2024	Jun 2026
Microsoft Certified: Azure AI Fundamentals	May 2024	N/A

POSITIONS OF RESPONSIBILITY

Coordinator, Finance and Investment Club   IIT Guwahati, 2026
- Organizing workshops, speaker sessions, and events on topics related to personal finance, stock markets, and investment strategies.
- Collaborating with club members to promote financial literacy and awareness among the student community.
- Managing club communications, social media outreach, and coordination with other campus organizations.