

# Swapnil Kumar

Cloud & Automation Engineer · AI/ML Practitioner · Full Stack Developer

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## PROFESSIONAL SUMMARY

Cloud & Automation Engineer with 15+ months of enterprise experience at Accenture, managing Linux infrastructure and automating operations across AWS, Azure, and GCP. Backed by **6 industry certifications** including GCP Professional Cloud Architect, Professional ML Engineer, and Azure Administrator Associate. Builds production-grade web applications using Python, JavaScript, React, and Node.js with Firebase and REST API integrations. IIT Mandi Minor in Data Science & ML (CGPA 8.1).

## TECHNICAL SKILLS

<b>Languages:</b>	Python, JavaScript, Bash, SQL, C++	<b>Cloud &amp; Infra:</b>	AWS, Azure, GCP, Linux (RHEL, SUSE)
<b>Frontend:</b>	React, HTML5, CSS3, Vite, PWA	<b>Backend:</b>	Node.js, Express, REST APIs, Cloudflare Workers
<b>DevOps &amp; Tools:</b>	Git, GitHub Actions, Docker, CI/CD	<b>AI/ML:</b>	Gemini API, Supervised Learning, NLP, TTS
<b>Databases:</b>	Firebase Firestore, SQL, Cloud SQL	<b>Other:</b>	Postman, ServiceNow, Jira, Automation

## WORK EXPERIENCE

### Associate Software Engineer — Cloud & Automation

Sep 2024 – Present

Accenture · Gurugram

- Administer and maintain **Linux servers (RHEL, SUSE)** supporting enterprise application workloads across multi-cloud environments (AWS, Azure, GCP)
- Developed **Python and Bash automation scripts** for log triage, disk usage alerting, and kernel cleanup — reducing manual operational effort by ~40%
- Created **Infra Cost Guard** toolkit using Python (Boto3) to scan idle EBS volumes, stale snapshots, and oversized EC2 instances, auto-opening cost tickets
- Built **SaraAI** at internal hackathon — AI-powered accessibility tool using React, Gemini API, and Cloudflare Workers; demonstrated AI/ML + full-stack capability
- Perform patching, incident resolution, and service recovery for production systems with detailed runbooks

## PROJECTS

### SaraAI — AI-Powered Accessibility Assistant [Live](#)

React · Vite · Cloudflare Workers · Google Gemini API · Firebase Auth · Chrome Extension · PWA

- Built an AI reading assistant for ADHD & Dyslexia users — simplifies web content into digestible formats across **12+ Indian languages**
- Engineered **multi-model fallback chain** on Gemini API for reliable AI processing; deployed serverless backend via Cloudflare Workers
- Shipped as both **Chrome Extension** (Shadow DOM isolation) and **Progressive Web App** with offline caching and text-to-speech

### Finzo — Finance & Stock Tracking Platform [Live](#)

JavaScript · Firebase (Auth + Firestore) · REST APIs · Cloudflare Workers

- Developed full-stack finance app with **secure Firebase authentication**, real-time stock data via FMP API, and portfolio tracking
- Implemented **Cloudflare Worker proxy** to secure API keys — preventing unauthorized access and key exposure
- Built interactive dashboards with charts, watchlists, market news, and responsive dark-themed UI

### Bird Detection Model

Python · Supervised ML · scikit-learn

- Developed ML-based bird species detection model at **IIT Mandi** — data preprocessing, model training, and performance evaluation

## CERTIFICATIONS

- Professional Cloud Architect — Google Cloud
- Professional ML Engineer — Google Cloud
- Professional Data Engineer — Google Cloud
- Azure Administrator Associate — Microsoft
- Associate Cloud Engineer — Google Cloud
- Professional Database Engineer — Google Cloud

## EDUCATION

### Minor in Data Science & Machine Learning

Jul 2024 – Aug 2025

Indian Institute of Technology (IIT) Mandi · CGPA: 8.1

### BCA (Computer Applications — AR/VR)

Aug 2021 – Jul 2024

Chandigarh University · CGPA: 8.11

## ACHIEVEMENTS

- 6 Cloud Certifications** across Google Cloud (5) and Microsoft Azure (1) — including 4 Professional-level
- 2nd Prize** — Chandigarh University Project Expo 2023 (MAZE VR — Unreal Engine)
- Deployed **3 production applications** (SaraAI, Finzo, Movie Streaming App) with live users
- Class Representative** and **Chief Editor** of class magazine at Chandigarh University