

Utkarsh Shukla

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Education

Degree	Institution	CGPA/Grade	Year
B.Tech in Computer Science Engineering	Manipal University Jaipur <i>Specialization: Cloud Computing</i>	8.35/10	May 2026
Higher Secondary (XII) ISC Board	City Montessori School, Lucknow <i>Stream: Physics, Chemistry, Mathematics with CS</i>	95.75%	Sep 2021
Secondary School (X) ICSE Board	City Montessori School, Lucknow <i>Stream: Science with Computer Science</i>	93.60%	May 2019

Technical Skills

Languages:	Python, JavaScript, Java, SQL
ML/AI:	TensorFlow, PyTorch, OpenCV, scikit-learn, LangChain, Transformers, GANs
Web Dev:	React.js, FastAPI, REST APIs, WebSocket
Databases:	PostgreSQL, MongoDB, Redis, Supabase
Cloud & DevOps:	AWS (EC2, Lambda, S3, ECS), Docker, Git, Linux, GPU Computing

Professional Experience

Cloud Ops Automation Intern *ION Trading Group — Jan 19, 2026 – Present*

- Managed AWS, Linux, and Windows environments using Checkmk and Datadog, ensuring 99.9% uptime.
- Supported 50+ enterprise apps and serverless functions, resolving daily operational incidents within 1+ hours.
- Automated 13+ routine cloud operations and system configurations, reducing manual maintenance efforts by 40%.

Software Developer Intern *Stick & Dot Media — Jul 2025 - Sep 2025*

- Built AI presentation generator with GPT-5 API, reducing creation time by 92%.
- Deployed full-stack app (React, Flask, PostgreSQL) on AWS EC2 with Docker, maintaining 99.5% uptime.
- Implemented CI/CD pipelines via GitHub Actions, cutting deployment time by 75%.

Key Projects

AI-Powered Presentation Generator [Live Demo](#)

- Architected intelligent content generation system using GPT-5 API and prompt engineering, automating 90% of presentation workflow with PostgreSQL-backed performance monitoring, real-time collaboration features.

AI Doctor Management System [Live Demo](#)

- Created NLP-powered symptom analysis engine with scikit-learn achieving 60% reduction in wait times for 1,000+ patient records, deployed on AWS ECS with RESTful APIs, automated appointment scheduling, and secure RBA control.

Smart Attendance System [GitHub](#)

- Built facial recognition system achieving 94% accuracy for 50+ users using TensorFlow and OpenCV, deployed on scalable AWS Lambda/S3 pipeline with automated attendance tracking dashboard and MongoDB integration for analytics.

Research & Publications

“Comparative Analysis of ML and Deep Learning Models for Land Use Classification” [Link](#)

- Benchmarked ML/DL models on 2,100 aerial images across 21 classes, achieving 94.2% accuracy using ResNet, TensorFlow, and scikit-learn.

Leadership & Team Collaboration

General Secretary & Executive Committee Member *IEEE GRSS MUJ — Oct 2022 – Jun 2025*

- Led cross-functional team of 40+ members, organizing 15+ technical events with 1000+ participants, managing events.

Certifications & Achievements

Certifications: Google AI Essentials • Oracle Cloud AI Foundations • AWS Cloud Foundations • CCNA Security & Automation • NPTEL Algorithms • NPTEL Software Testing

Hackathons: Smart India Hackathon 2024 • Hacker Street 2024 • Microsoft Campus Connect 2025 • Adobe Hackathon