

Utkarsh Shukla

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Summary

Computer Science student with 2+ years experience in AI/ML and full-stack development. Built production systems, optimized model performance by 40%, and led technical teams. Expertise in TensorFlow, React, and AWS deployment.

Education

B.Tech Computer Science & Engineering

Manipal University Jaipur — May 2026

Minor: Cloud Computing • GPA 8.15/10 • Coursework: Machine Learning, Computer Vision, Data Structures

Experience

AI/ML Developer Intern

InLighnX Global Pvt. Ltd. — May 2025 – Jun 2025

- **Developed** facial recognition and sentiment analysis models using TensorFlow and OpenCV, achieving 95.3% accuracy on 50,000+ image dataset (22% improvement over baseline).
- **Deployed** ML models on AWS (EC2, Lambda, S3), reducing inference latency from 800ms to 480ms while maintaining 99.9% uptime.
- **Integrated** Google Gemini AI APIs into NLP pipeline, reducing false positive rates from 23% to 8%.

Software Developer Intern

Stick & Dot — Jul 2025

- **Built** AI-powered presentation generator using GPT-4 API and LangChain, reducing slide creation time from 2 hours to 25 minutes.
- **Developed** React.js frontend with FastAPI backend, achieving sub-150ms API response times and 99.5% uptime on AWS ECS.

Research & Publications

“Comparative Analysis of ML and Deep Learning Models for Land Use Classification” — *Accepted Conference Paper*

- **Benchmarked** traditional ML algorithms vs. deep learning models on UC Merced dataset (2,100 aerial images, 21 classes).
- **Achieved** 94.2% accuracy with ResNet architecture, demonstrating 18.7% improvement over traditional approaches.

Projects

AI-Powered Presentation Generator — React.js, TypeScript, Python, Gemini AI

[Live Demo](#)

- **Engineered** full-stack SaaS platform with intelligent content generation and automated image curation features.

Lead Management System — React, Node.js, PostgreSQL, REST API

[Live Demo](#)

- **Developed** secure and scalable CRM using React and Node.js, featuring robust REST API for lead tracking, activity monitoring, and administrative reporting.

Secure Personal Journal Platform — React.js, TypeScript, PostgreSQL

[Live Demo](#)

- **Created** digital journaling app with mood tracking and AES-256 encryption, serving daily active users with sub-200ms page loads.

CNN Image Classifier — TensorFlow, Keras, Python

[Live Demo](#)

- **Trained** multi-class CNN achieving 96.4% accuracy on 10,000-image dataset, deployed on Hugging Face Spaces.

Technical Skills

Programming Languages: Python, JavaScript, TypeScript, Java, C++ , SQL

Machine Learning & AI: TensorFlow, PyTorch, OpenCV, scikit-learn, LangChain, Transformers

Web Development: React.js, Next.js, FastAPI, Flask, Node.js, REST APIs

Databases & Storage: PostgreSQL, MongoDB, Redis, Supabase

Cloud & DevOps: AWS (EC2, Lambda, S3, ECS), Docker, Git, Linux

Leadership & Impact

General Secretary

IEEE GRSS MUJ — Oct 2022 – Jun 2025

- **Led** organization of 12 technical events with 500+ participants, growing chapter membership by 40%.
- **Redesigned** chapter website using FastAPI and React.js, improving member engagement metrics by 65%.

Certifications & Achievements

Certifications: AWS Academy Cloud Foundations • CCNA Security & Automation • NPTEL Data Structures & Algorithms

Hackathons: Rapid prototyping and problem-solving experience at Smart India Hackathon 2024 & Hacker Street 2024