Akshara Sharma

Software Developer

EDUCATION

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• Amity University, Noida, Uttar Pradesh, India

B. Tech Computer Science & Engineering (Specialisation: Data Science)

Cumulative GPA: 8.92 / 10

WORK EXPERIENCE

• GenTA

Artificial Intelligence Intern | Link

April 2025 – June 2025

Sept 2022 - May 2026

Seoul, South Korea (Remote)

- Built an AI-powered bilingual library recommendation system with 97.8% accuracy, reducing user search time by 89% and processing 150K+ book queries using HyperCLOVA AI, KDC mapping, and real-time video generation of 5,200+ AI-curated summaries with voiceover narration.
- Developed an intelligent discovery platform with 99.4% uptime and 95.2% user satisfaction, integrating automated content generation (92% faster), MongoDB optimization, role-based access control, and scalable discussion forums handling 25K+ threads at 98.7% data integrity.

• Thales
Software Engineer Intern | Link

August 2024 - November 2024

Noida, India

- Achieved 97.67% accuracy by designing and deploying an AI-powered offensive content detection system for doodles using CLIP and Gemini APIs, enabling real-time moderation across creative platforms.
- Developed a live-tracking graphical interface for sketch analysis, improving detection responsiveness by 40% and aligning performance with top-tier industry benchmarks for content safety.

Defence Research & Development Organisation

May 2024 - July 2024

Delhi, India

- Software Engineer Intern | Link
- Engineered an AI-driven traffic forecasting system with 98.35% accuracy, reducing energy consumption by 40% and boosting resource allocation efficiency by 30% across critical defence networks.
- Led large-scale data analysis using Python (NumPy, Pandas) on 50,000+ data points, uncovering trends that enhanced service reliability
 and informed strategic decisions in secure defence infrastructure.

SKILLS & INTERESTS

- Languages: Python, C/C++, Java, MATLAB
- Web Development: HTML, CSS, JavaScript, ReactJS, Django, NodeJS
- Databases: MySQL, MongoDB, PostgreSQL
- Tools & Technologies: Git, GitHub, Linux
- AI/ML: Machine Learning, Deep Learning, Generative AI, Computer Vision, Natural Language Processing
- Frameworks: TensorFlow, PyTorch, Hugging Face, RAG, LangChain, AutoGen, CrewAI, Haystack Agents (Agentic AI), Transformers
- Core Concepts: Data Structures and Algorithms, DBMS, Operating Systems, Object Oriented Programming, Computer Networks

PROJECTS

• RouteVision AI – AI-Powered Traffic Monitoring & Prediction | GitHub

- Developed an AI-driven system for real-time traffic congestion monitoring across a network of cameras, ensuring accurate and efficient data collection.
- Implemented predictive analytics to forecast traffic conditions and designed a traffic signal simulation module to optimize urban mobility solutions.

• Real-time Ganga Riverwater Quality Forecasting Using AI-Enabled DSS, Satellite Data and IoT Sensor Data | GitHub

- Engineered an AI-enabled decision support system that increased real-time forecasting accuracy of Ganga River water quality to 97.86%, integrating over 5,000 data points from multiple sources.
- Developed a user-centric interface for visualizing metrics and generating actionable 3-5 day forecasts, securing a spot at the Smart India Hackathon 2024 Grand Finale.

• AccessiTube AI – Neurodivergent-Focused YouTube Content Adaptation Platform GitHub

- Engineered an AI-powered accessibility platform integrating Virtual Audio Cable and Gemini AI to provide personalized content formats (visual breakdowns, simplified language, bullet summaries) tailored to neurodivergent conditions (ADHD, Autism, Dyslexia).
- O Developed end-to-end RAG pipeline along with audio processing pipeline with real-time system audio capture, multi-modal content adaptation, and automated Google Docs integration, serving 4+ accessibility formats with 95%+ accuracy.

PUBLICATIONS

• Presented "AI-Driven Decision Support System for Real-Time Ganga River Water Quality Monitoring and Forecasting Using IoT Sensors" at the International Conference on Ultra-Modern Telecommunications and Control Systems (ICUMT) 2024. (Link)

CERTIFICATIONS & ADDITIONAL INFO

- Coursera- Machine Learning Specialization by Andrew Ng (Link)
- CrewAI- Course on CrewAI (Link)
- Recipient of Amity Merit Scholarship (2023-2024) (Link)
- Smart India Hackathon 2024 Finalist (Link)
- NPTEL- Python for Data Science (Link) & Software Conceptual Design (Link)