

Kushagra Agrawal

Data Scientist

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PROFILE

I am a budding Data Scientist with hands-on experience in Artificial Intelligence, Deep Learning, Computer Vision, and Generative models. Actively building applications of AI Agents with proven ability to prototype end-to-end solutions, from automating complex data workflows to creating sophisticated, interactive AI applications.

SKILLS

Languages & Tools: Python, MySQL, LangChain, LangGraph, TensorFlow, PyTorch, OpenCV

Core Skills: Machine Learning, Deep Learning, Agentic AI, Computer Vision, Data Pipelines

Dev Tools: Git & GitHub, Docker, MLflow, Postman, Firebase, n8n

Soft Skills: Problem Solving, Communication, Documentation, Team Collaboration

PROFESSIONAL EXPERIENCE

AI & Data Science Intern | @Unihox

July 2025 – Oct 2025

- Developed and deployed autonomous AI agents to automate internal data processing and analysis, directly contributing to the enhancement of the core wellness platform.
- Engineered and fine-tuned end-to-end data pipelines for AI-driven wellness solutions, processing comprehensive user datasets to extract and refine key features for predictive modeling.
- Played an integral role in the full machine learning lifecycle, from data collection and preparation to model training, rigorous testing, and debugging, directly contributing to the continuous improvement of the AI's performance.

PROJECTS

NexusAgent.ai [Platform Link](#)

- Engineered an end-to-end AI interview Agent platform leveraging Google AI SDK and Vapi AI to deliver real-time, voice-interactive mock interviews with human-like responsiveness.
- Implemented Vapi Web SDK for seamless voice interactions, that simulate realistic interview scenarios with live speech recognition and response generation
- Designed secure backend infrastructure using Firebase Firestore for data management, Firebase Auth for user authentication, and Firebase Admin for server-side operations.
- Developed an AI feedback engine using Google Gemini 2.0 that analyses interview transcripts and generates detailed performance insights, improvement suggestions, and personalized recommendations.

Vision Play [GitHub Link](#)

- Developed a computer vision-based system using YOLO-based object detection to track and analyze object movement in videos.
- Implemented camera movement estimation and perspective transformation to accurately measure object positions in real-world coordinates.
- Designed an advanced tracking system to compute the speed and distance of moving objects using frame-by-frame analysis.
- Optimized the pipeline for efficiency, leveraging OpenCV, NumPy, and YOLOv8, ensuring real-time processing of sports and surveillance footage.

EDUCATION

Bachelor of Computer Applications (BCA)

Amity University, Noida — CGPA: 9.08

2024 – 2027

Noida, Uttar Pradesh

- Relevant Coursework: Data Structures & Algorithms, Data Science, Fuzzy Logic, Big Data
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CERTIFICATIONS

- Deep Learning Specialization – DeepLearning.AI
 - Generative AI for Everyone – DeepLearning.AI
 - Python for Data Science, AI & Development – IBM
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Publications

- My Data Science Lessons So Far (11/2024) [Link](#)
- Struggles in My Data Science Journey (08/2024) [Link](#)
- My Journey into the World of Data (08/2024) [Link](#)