

# 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.

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## EDUCATION

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### 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

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

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## Publications

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- ♦ 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](#)