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

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💼 PROFESSIONAL EXPERIENCE

AI & Data Science Intern | Unihox   July 2025 – Present

- **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](#)

- **Built a comprehensive interview preparation agent integrating Google AI SDK and Vapi AI for intelligent voice-based mock interviews with real-time responses.**

- **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.**

VisionPlay [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

📑 CERTIFICATIONS

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

📑 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