

ROHAN DOBRIYAL

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LinkedIn | Portfolio

EDUCATION

Amity University, Noida — B.Tech in Computer Science
Sept 2021 – May 2025 | CGPA: 7.6

PROJECTS

Autonomous Grading System

- Built an automated grading system using Python, OpenCV, and EasyOCR to process handwritten and digital submissions.
- Used NLP and text similarity metrics to evaluate answers against model responses.

HealthCare Management System Using NFC Cards

- Engineered a secure NFC-based patient identification system enabling instant medical data retrieval and error-free check-ins.
- Integrated NFC tags with encrypted access control, ensuring compliance with HIPAA/GDPR data privacy standards.

Trash Sorting Robotic Arm

- Built a real-time trash-sorting robot powered by YOLOv8 and TensorFlow Lite, deployed on Raspberry Pi.
- Implemented servo-motor control to physically sort detected objects across 7 waste categories.

WORK EXPERIENCE

KMicro Tech Inc.- Data Engineering Intern

May 2024 - July 2024

- Automated backend data pipelines using Python and SQL, enabling cross-platform integration and reducing manual processes by 40%.
- Collaborated with QA teams to test REST APIs using Postman, ensuring seamless data exchange and system stability.

Amity Incubation- Web Developer Intern

Feb 2023 - May 2023

- Created and managed 2+ web applications using up-to-date frameworks like React and Angular, optimizing them for peak speed and scalability.
- Technologies Used: React, Node.js, MongoDB, RESTful APIs, Git.

PROFESSIONAL SKILLS

Languages	Python, JavaScript, TypeScript, SQL
Frameworks	React, Node.js, Express.js, TensorFlow, Scikit-learn, Next
Tools & DevOps	GitHub Actions, MongoDB, RESTful APIs, Vercel, Git

ACHIEVEMENTS

- Flipkart Grid 5.0
- Selected in top 104 conducted by hack2skill HumanAlze Hackathon
- Received recognition for automating grading pipelines, achieving a 95% accuracy rate and reducing manual effort by 50%.