

# AYUSH CHOUHAN

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## Education

<b>RV College of Engineering</b> <i>B.E. in Artificial Intelligence and Machine Learning</i>	<b>Nov 2022 – Aug 2026 (Expected)</b> CGPA: 8.54/10
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## Work Experience

<b>ARTPARK-IISC   Data Science Intern</b>	<b>Jul 2025 – Present</b>
<ul style="list-style-type: none"><li>Built a data standardization tool to convert raw datasets into a structured format, cutting cleaning time by <b>30%</b>.</li><li>Engineered phonetic and fuzzy matching algorithms, correcting <b>95%+</b> of name and spelling inconsistencies.</li><li>Mapped 10K+ entries to standardized region IDs via automated validation scripts.</li><li>Designed a JSON-based replacement log enabling <b>90% repeatable</b> auto-fixes for recurring data errors.</li></ul>	
<b>SWAN Sorter   Project Intern</b>	<b>Oct 2024 – Jul 2025</b>
<ul style="list-style-type: none"><li>Integrated deep learning into rice grain sorting, boosting accuracy from 60% to <b>88%</b>.</li><li>Fine-tuned object detection with autoencoders, achieving <b>90% precision</b> and <b>30% faster</b> inference.</li><li>Optimized <b>Gaussian mixture probabilistic model</b> and <b>HSV</b>(Hue-Saturation Value) to reach <b>95% sorting efficiency</b> for grain size and color.</li></ul>	

<b>WeWin Technologies   Software Development Intern</b>	<b>Mar 2025 – May 2025</b>
<ul style="list-style-type: none"><li>Developed AI-powered WhatsApp chatbot + mobile app, reducing consultation booking delays by <b>40%</b>.</li><li>Integrated multilingual NLP for <b>7+ Indian languages</b>, expanding reach to various potential users.</li><li>Created voice-based navigation for visually impaired users</li><li>Structured a pipeline for generating queries to retrieve data from the database automatically.</li></ul>	

## Projects

<b>Sentiment Analysis and Sarcasm Detection for Online Reviews</b>	<b>Jun 2024</b>
<ul style="list-style-type: none"><li>Built sentiment analysis model with Google's RoBERTa achieving over 90% accuracy.</li><li>Implemented sarcasm detection with 80% accuracy to improve sentiment classification.</li><li>Used <b>VADER</b> for lexicon-based sentiment analysis to handle short and informal reviews.</li></ul>	
<b>AI Finance Tracking System</b>	<b>Feb 2024</b>
<ul style="list-style-type: none"><li>Developed AI finance tracker for monitoring investments, expenses, and goals, improving savings up to 20%.</li><li>Deployed real-time database for accurate financial tracking.</li><li>Created AI chatbot to analyze spending and suggest optimizations.</li></ul>	

## Volunteer Experience

<b>DHI Club of RVCE   Technical Core Member (NEXUS)</b>	<b>Dec 2023 – Present</b>
<ul style="list-style-type: none"><li>Organized a Datathon with 200+ participants.</li><li>Designed event materials and datasets to boost engagement.</li></ul>	

## Additional

- Technical Skills:** Python (Intermediate, ML, Neural Networks, RAG, LLMs), C++ (150+ Code 360, 100+ LeetCode), SQL.
- Certifications:** Supervised Machine Learning (Coursera), Advanced Learning Algorithms (Coursera), Introduction to Operating Systems (NPTEL).
- Awards:** 3rd Place Coding Contest (Newton School), 2nd Place Business Intelligence Lab for AgroTrade idea.