

# Ridham Inani

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## Career Objective

Machine Learning Engineer with strong expertise in Python, SQL, and machine learning algorithms, and hands-on experience building 10+ end-to-end ML projects. Proven ability to design and deploy complete ML pipelines, develop robust predictive models, and work with real-world datasets to deliver data-driven solutions. Skilled in scikit-learn, NumPy, Pandas, with practical experience in computer vision using OpenCV and CNNs, and data visualization using Power BI, Matplotlib, and Seaborn. Highly motivated to apply strong problem-solving and analytical skills to build scalable AI/ML solutions that drive measurable business impact.

## Education

<b>B.Tech in Electronics and Communication Engineering</b> .....	2022 – Present
Roorkee Institute of Technology	CGPA: 7.53
<b>CBSE Class XII</b> .....	2021 – 2022
Central Academy, Chittorgarh	91.6%
<b>CBSE Class X</b> .....	2019 – 2020
St. Paul's Sr. Sec. School, Chittorgarh	88.4%

## Technical Skills

**Programming Languages:** Python, C, C++

**Data Analysis & Visualization:** SQL, NumPy, Pandas, Matplotlib, Seaborn, Plotly, Power BI

**Machine Learning, NLP & Computer Vision:** scikit-learn, Regression, Classification, Model Evaluation, TF-IDF, Sentiment Analysis, OpenCV, Image Processing, Contour Detection

**Tools, DevOps & Cloud:** Git, GitHub, GitHub Actions, Docker, AWS (S3), VS Code, Jupyter Notebook, MATLAB

**Soft Skills:** Analytical Thinking, Teamwork, Communication, Time Management, Adaptability

## Projects

### Sensor Fault Detection using Machine Learning

2025

- Developed a pipeline to classify faulty vs. healthy sensor data using XGBClassifier, RandomForest, SVC, and GradientBoosting.
- Achieved **96% accuracy, 94% precision, and 95% recall**.

### Fraud Detection System using Machine Learning

2025

- Built end-to-end supervised pipeline using LogisticRegression with StandardScaler and OneHotEncoder.
- Detected fraudulent transactions efficiently.
- Achieved **91% precision, 90% recall, and 90% F1-score**.

### Customer Personality Segmentation using Machine Learning

2025

- Applied Agglomerative Clustering to segment customers based on behavior and demographics.
- Converted clusters into labeled classes and trained LogisticRegression for classification.
- Enabled scalable prediction of customer segments.

### Sentiment Analysis on IMDb Movie Reviews

2025

- Built text classification model using TF-IDF and LogisticRegression.
- Cleaned and tokenized data; visualized insights with word clouds and confusion matrix.
- Achieved **89% accuracy, 88% precision, and 87% recall**.

### Medical Question-Answering Chatbot

2025

- Developed a medical chatbot using LLMs for domain-specific question answering.
- Implemented document ingestion, text chunking, and semantic search using embeddings with FAISS.

- Delivered accurate, context-aware, and medically relevant responses.

### Sales Analytics, Dashboards, and EDA

2024

- Performed EDA on Blinkit sales, Atliq Hardware, USA Visa approvals, and Google Play Store datasets.
- Cleaned, transformed, and analyzed data to identify trends and correlations.
- Built interactive Power BI dashboards with KPIs, slicers, and custom visuals.

## Internships

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### Corizo

*Marketing Intern*

27 Nov 2025 – 27 Dec 2025

- Assisted in executing digital marketing campaigns and lead-generation initiatives.
- Analyzed campaign performance metrics to support data-driven marketing decisions.

### InternBoot

*Data Science Intern*

30 Jun 2025 – 30 Sep 2025

- Worked on data preprocessing, exploratory data analysis, and feature engineering.
- Developed and evaluated machine learning models using appropriate metrics.

### Y-Hills Tech (Remote)

*IoT and Embedded Systems Intern*

Oct 2023 – Nov 2023

- Built a real-time temperature and humidity monitoring system using NodeMCU and Blynk.
- Worked with IoT protocols and interfaced digital and analog sensors.

## Certifications

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- Python for Machine Learning
- Python for Computer Vision with OpenCV and Deep Learning
- Data Science with Generative AI – PW Skills
- Fundamentals of IoT – Y-Hills (2023)
- Microcontroller Systems and IoT – RIT Roorkee (2024)
- AI-Based Humanoid Robotics – RIT Roorkee (2024)
- Basics of Electric Vehicles – IIT Roorkee (2025)

## Achievements and Extra-Curricular

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- **Hackathon Coordinator:** Led college hackathons for 2 consecutive years.
- **Project Showcase:** Presented Pothole Detection at institute innovation fair.
- **UDAAN Cultural Club:** Core member and event planner.
- **Kho-Kho Runner-Up:** Represented college at district-level sports event.

## Personal Details

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**Date of Birth:** 14-Oct-2004

**Nationality:** Indian

**Languages:** English, Hindi