

Krishna Chauhan

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PROFILE

Third-year Computer Science undergraduate with demonstrated expertise in backend development, real-time IoT systems, and machine learning applications. Strong foundation in Data Structures, Algorithms, DBMS, and System Design. Seeking Software Engineer / Systems Engineer role at TCS.

EDUCATION

Shri Ramdeobaba College of Engineering and Management

B.Tech Computer Science and Engineering | CGPA: 7.71/10 | 2023–2027

Sacred Heart Academy, CBSE

Secondary School Certificate (SSC) | Score: 92.4% | 2021

Tejaswini Junior College

Higher Secondary Certificate (HSC) | Score: 76% | 2023

TECHNICAL SKILLS

Languages

Java, Python, SQL, JavaScript

Core CS

Data Structures and Algorithms, OOP, DBMS, Operating Systems, Computer Networks

Tools & Technologies

Git, GitHub, Linux, VS Code, IntelliJ IDEA, Power BI

Frameworks & Libraries

React, OpenCV, Pandas, NumPy, Matplotlib

IoT & Systems

ESP32, Arduino, Raspberry Pi, Sensors & Embedded Systems

ACHIEVEMENTS

Smackathon 2025 (National-Level Hackathon Finalist)

Red Connect
01/12/2024

- Built backend and REST APIs for a real-time blood donation platform
- Designed database schemas and delivered core features under 24-hour hackathon deadline

Photography Co-Head (CSE Compusys Committee)

Managed photography coverage, coordinated team activities, and contributed to creative event management

Graphic Design Member (CDPC RBU)

Designed posters, creatives, and promotional content for technical and placement-related activities.

PROJECTS

Robust Ensemble-Based Deepfake Image Detection Using Transfer Learning

Python, TensorFlow, PyTorch, OpenCV, CNN, Transfer Learning | Research Project

- Developed ensemble-based deep learning system detecting deepfake, morphing, and splicing attacks with 94.8% accuracy on benchmark datasets
- Applied transfer learning using ResNet50, Xception, and EfficientNet
- Implemented soft voting ensemble strategy with confidence thresholding, improving detection precision by 12% over single-model baseline
- Evaluated performance using precision, recall, F1-score, and ROC-AUC metrics

Jal Mitra - Smart Water Quality Monitoring System (IoT)

ESP32, IoT, WebSockets, Cloud, Multiple Sensors (pH, TDS, Turbidity) | IoT Implementation Project

- Engineered end-to-end IoT system monitoring water quality parameters in real-time across distributed sensor network
- Developed real-time dashboard with WebSockets and cloud logging
- Implemented SMS alerts using GSM module for unsafe water conditions

Tata Retail Sales Dashboard (Power BI)

Power BI, DAX, Excel, Advanced Data Analytics | Mini Internship Project

- Developed interactive multi-page Power BI dashboard analyzing retail sales trends across 50+ stores and 12 countries with 2M+ transaction records
- Performed RFM customer segmentation and revenue analysis using DAX
- Generated business insights for decision-making and trend analysis

Gold Price Trend Analysis

Python, Pandas, NumPy, Matplotlib, Seaborn

- Analyzed 20 years of historical gold price data (2005–2025) identifying cyclical patterns and volatility trends using advanced statistical methods
- Applied 10-week and 50-week moving averages to identify trends and volatility patterns, revealing 45% price swings during economic downturns.
- Created visualizations including heatmaps and correlation matrices to analyze market behavior and inverse correlation with USD.

INTERNSHIP

Front End Web Development Intern

AICTE-Edunet Foundation (IBM SkillsBuild)

- Completed 6-week AICTE IBM SkillsBuild internship in web development
- Built mentor-guided responsive web pages using HTML, CSS and JavaScript
- Presented final project demonstrating practical implementation