

# RITIKA

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## EDUCATION

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### Banasthali Vidyapith

*Bachelor of Technology in Information Technology—CGPA-8.83*

Jaipur, Rajasthan

*July 2022 – May 2026*

### Sacred Hearts Public School

*XII (CBSE)—CGPA-8.86*

Bareilly, Uttar Pradesh

*April 2022*

## SKILLS

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**Languages:** Java, Python, C, JavaScript, HTML5, CSS, Scala

**Additional:** Firebase, MySQL, MongoDB, Latex, sphinx

**Developer Tools:** GitLab, GitHub, Visual Studio Code, Jupyter Notebook, Canva

**Software Skills:** AutoCad, SolidWorks

**Data Visualization:** Graphviz (Python), Matplotlib, Seaborn

**Major Courseworks:** Object-oriented programming(T/L), Database Management System(T/L), operating system(T/L)

## PROJECTS

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### Deep Learning Model for Brain Tumor Detection

Present

- Developed a deep learning model using Python and TensorFlow/Keras to detect brain tumors in MRI images.
- Implemented convolutional neural networks (CNNs) for robust image classification and segmentation, achieving an accuracy rate exceeding 90% on a validation dataset.
- **Exposure:** Python, TensorFlow, Keras, NumPy, Pandas, OpenCV

### Real-Time Web-Based Energy Monitoring Dashboard

Nov 2023 - Jan 2024

- Designed and implemented a responsive web application for real-time tracking of energy consumption, integrating data from multiple sensors and devices to provide comprehensive energy usage analytics.
- Utilized advanced data visualization libraries (e.g., D3.js, Chart.js) to create interactive and intuitive dashboards.
- Implemented backend services with Node.js and MongoDB for efficient data management and reporting.
- **Exposure:** HTML, CSS, JavaScript, D3.js, Chart.js, Node.js, Express.js, MongoDB

### PyAutoCad - automated Modelling of Complex Structures

Nov 2022 - Jan 2023

- Developed automated modeling algorithm using PyAutoCAD for precise design of complex structures
- Integrated PyAutoCAD functionalities for shape analysis and property extraction of 3D shapes
- Enhanced team productivity by introducing automated reporting systems and dynamic dashboards; achieved a 30% reduction in manual data entry and a 20% increase in overall efficiency.
- **Exposure:** Python, AutoCad, Matplotlib, PyAutoCad

## ACHIEVEMENTS

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- **Adobe Career Academy**, showcased exceptional creative problem-solving skills, earning selection in the competitive Adobe mentorship program.
- **Mentee at Codess Cafe**, demonstrating a commitment to continuous learning and growth in the tech industry through mentorship.
- **WOMEN ENGINEERING PROGRAM 2023**, Selected among the top 200 applicants (out of 30,000 in India) for the WE Program offered by **TalentSprint**, supported by **Google**.
- **Vice lead** of **GeeksforGeeks** student chapter, demonstrating leadership and dedication to promoting technical excellence within the college community.
- Cracked the Top 10 teams at the competitive **WE-HACK 2023** hackathon, demonstrating strong problem-solving and technical abilities.
- Awarded First Place in **Milestone D'fuse 2022**, showcasing exceptional technical skills and creativity in designing a high-quality, detailed 3D model using AutoCAD software