

# M RITHICKA

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## EDUCATION

<b>Bachelor of Technology - Computer Science and Engineering</b> SRM Institute of Science and Technology	2022 - 2026 CGPA - 9.23
<b>Higher Secondary</b> SBOA School and Junior College	2020 - 2022 10 <sup>th</sup> - 96%   12 <sup>th</sup> - 72.2%

## SKILLS

### Technical Skills

- Programming Languages - Python
- Web Development - HTML, CSS, JavaScript
- CS Fundamentals - Data Structure and Algorithm, DBMS, OOPS, SQL, Operating Systems, Computer Networks, Machine Learning, Artificial Intelligence, Computer organization and Architecture
- Frameworks & Libraries - Numpy, Pandas, Matplotlib, Tensorflow, Scikit-learn, Streamlit, Django, React.js

### Soft Skills

- Leadership
- Public Speaking
- Time Management
- Communication
- Problem Solving
- Teamwork
- Critical thinking

## PROJECTS

<b>Image Compression App</b>	2024
• Developed a deep learning-based image compression tool using TensorFlow and Keras, trained on the CIFAR-10 dataset for effective encoding and decoding of images.	
• Implemented convolutional autoencoders to achieve high-fidelity image reconstruction with significant file size reduction.	
<b>Hotel Management System</b>	2023
• Designed and implemented a hotel management desktop application using JavaFX for a responsive user interface and JDBC for database connectivity with MySQL.	
• Incorporated features such as booking management, customer check-in/check-out, and real-time data updates to streamline hotel operations.	
<b>Sports Statistics System</b>	2022
• Created a comprehensive player performance analysis tool using Python, leveraging Pandas for data manipulation and cleaning, and Matplotlib for generating detailed statistical visualizations.	
• Automated report generation with Jupyter Notebooks and integrated CSV data handling for seamless analysis of large sports datasets.	
<b>Stock Market Predictor</b>	2021
• Developed a predictive model for stock price forecasting using linear regression, implemented entirely in C to optimize performance and handle large datasets efficiently.	
• Utilized data visualization libraries such as GNUpot and custom plotting scripts to present historical and forecasted stock trends clearly and intuitively.	

## EXTRA-CURRICULAR ACTIVITIES

<b>Volunteering</b>	2024
• Volunteered in a clinical environment, supporting hospital staff in non-clinical tasks and improving patient interaction and administrative flow.	
• Gained exposure to orthopedic medical practices, patient care protocols, and hospital operations, fostering empathy and responsibility in a healthcare setting.	
<b>Student Parliament: Member</b>	2019-2020
• Served as a student representative in the school parliament, voicing the concerns and ideas of over 10,000 individuals in administrative discussions and activity planning.	
• Initiated and supported student-focused improvements related to academics, extracurricular opportunities, and campus facilities.	
<b>Scouts - Guides Activity: Girl Guide</b>	2016-2018
• Actively contributed to organizing community service initiatives, including volunteering drives and social awareness programs focused on cleanliness, health, and environmental care.	
• Participated in team-building camps and outdoor activities that fostered collaborative problem-solving in real-world scenarios.	

## CERTIFICATIONS

<b>Python for Data Science - NPTEL</b>	2025
<b>Natural Language Processing for developers - Infosys Springboard</b>	2025
<b>Introduction to Machine Learning - NPTEL</b>	2024
<b>Database and SQL - Infosys Springboard</b>	2024