

M RITHICKA

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EDUCATION

Bachelor of Technology - Computer Science and Engineering SRM Institute of Science and Technology	2022 - 2026 CGPA - 9.23
Higher Secondary SBOA School and Junior College	2020 - 2022 10 th - 96% 12 th - 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, Scikit-learn, Seaborn, OpenCV/cv2, SQLite3, DeepFace, Mediapipe, Matplotlib, Tensorflow, Keras, Streamlit, FastAPI, React.js

Soft Skills

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

TECHNICAL EXPERIENCE

Data Science Intern D4 Insight Pvt. Ltd.	2025
<ul style="list-style-type: none">• Engineered an app named Intellexion, a web-based AI knowledge companion that ingests PDFs, GitHub repos, and URLs, providing semantic search, summarization, and document-based Q&A using FastAPI, React, and HuggingFace models.• Attained hands-on experience in AI application development, including backend APIs, frontend interfaces, database management, and deploying NLP models in a professional work environment.	

PROJECTS

Song For Emotion Tool [Python Streamlit FastAPI OpenCV DeepFace Mediapipe]	2025
<ul style="list-style-type: none">• Developed an AI-powered emotion recognition and music recommendation platform leveraging Python, OpenCV, DeepFace, and Mediapipe to capture and classify real-time facial expressions via webcam.• Connected Spotify API with Streamlit and FastAPI to dynamically generate personalized playlists, demonstrating expertise in computer vision, deep learning, affective computing, and end-to-end full-stack AI application development	
Image Compression App [Python Tensorflow Streamlit NumPy Matplotlib SQLite3]	2025
<ul style="list-style-type: none">• Created a secure, deep learning-based image compression system using Multi-Stage Convolutional Autoencoders trained on CIFAR-10, achieving up to 85% compression while maintaining PSNR above 30 dB for high visual fidelity.• Integrated adaptive quantization, intelligent format selection and a dual-layer cryptographic security framework with a Streamlit interface and SQLite backend, ensuring efficient storage, robust data protection, and scalable real-world deployment.	

Music Trend Prediction Using ML [Python pandas seaborn cv2 scikit-learn Keras]	2024
<ul style="list-style-type: none">• Designed and implemented a machine learning-based music trend prediction system leveraging Python, TensorFlow/Keras, Scikit-learn, and Pandas to analyze audio features, streaming data, and listener behavior for forecasting emerging genres and song popularity.• Built and optimized predictive models including LSTM architectures with sentiment analysis and real-time data integration, achieving high accuracy in identifying future music consumption patterns.	

EXTRA-CURRICULAR ACTIVITIES

Volunteering	2024
<ul style="list-style-type: none">• 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.	

Student Parliament: Member	2019-2020
<ul style="list-style-type: none">• 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.• Contributed to initiatives for enhancing the student experience by supporting improvements in academic programs, expanding extracurricular opportunities, and upgrading campus facilities.	

CERTIFICATIONS

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