




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. • Engineered an app named Intellection, 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.	2025
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PROJECTS

Song For Emotion Tool [Python Streamlit FastAPI OpenCV DeepFace Mediapipe]  • 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	2025
Image Compression App [Python Tensorflow Streamlit NumPy Matplotlib SQLite3]  • 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.	2025
Music Trend Prediction Using ML [Python pandas seaborn cv2 scikit-learn Keras]  • 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.	2024

EXTRA-CURRICULAR ACTIVITIES

Volunteering • 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.	2024
Student Parliament: Member • 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.	2019-2020

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