

AKSHAT NEOLIA

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Education

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

B.Tech in Computer Science with specialization in Information Technology — GPA: 8.78

June 2026 (expected)

Chennai, India

SALWAN PUBLIC SCHOOL

Higher Secondary Certificate

July 2022

New Delhi, India

Experience

Defence Research and Development Organization - SAG

December 2024 - January 2025

Intern

Hybrid

- Developed a **Predictive Maintenance System** using Feedforward Neural Networks (FNN) for defense applications, achieving **97% accuracy** in identifying potential equipment failures and improving operational reliability.
- Implemented a Scalable AI Pipeline with data preprocessing, model training, and evaluation, handling class imbalance and optimizing performance for real-time failure prediction.
- Collaborated with DRDO scientists and gained hands-on experience in defense-grade predictive analytics, working on real-world military maintenance challenges and optimizing operational readiness.

Projects

FaceTrack - Facial Recognition Attendance System | Python, NumPy, OpenCV

[GitHub](#)

- Developed a Real-Time Facial Recognition Attendance System using OpenCV and the Face Recognition library, implementing automated attendance tracking with a CSV log.
- Implemented Unrecognized Face Detection with Auto-Shutdown by integrating a timer-based mechanism that terminates the system if no known face is detected for 10 seconds, enhancing security and efficiency.

Krishi - Smart Farming Assistant | Flutter, Firebase, Machine Learning

[GitHub](#)

- Built ML-powered farming assistant (**94% accuracy** for price prediction, **97% accuracy** for crop recommendation) with real-time weather integration, offline functionality, and activity tracker.
- Engineered scalable architecture featuring secure authentication, session management, and currently supporting android.

Student Management System | Python, Tkinter, MySQL

[GitHub](#)

- Developed a Student Management System, enabling student registration, record management, and deletion through a user-friendly GUI.
- Implemented database integration with MySQL, optimizing data retrieval and management using SQL queries for efficient student record handling.

Technical Skills

Programming Languages: Python, Java, C, C++, SQL, HTML, CSS, JavaScript.

Tools: ChatGPT, VS Code, Google Colab, PyCharm, Notion, Git, GitHub, Canva, Docker.

Machine Learning and AI Libraries: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, OpenCV, Streamlit, TensorFlow.

Certificates/Certifications

Oracle Cloud Infrastructure 2024 Certified Foundations Associate - Oracle : Proficient in deploying and managing cloud resources with a focus on security and cost optimization.

Oracle Certified Professional: Java SE 17 Developer - Oracle : Skilled in developing and optimizing Java applications using modern Java SE 17 features.

Machine Learning Foundation - AWS Academy : Fundamental Concepts and Techniques in Machine Learning.

Data Analytics Process Automation Virtual Internship - Alteryx : Proficient in automating data workflows and generating data-driven insights using Alteryx.

Geodata Processing using Python and Machine Learning - IIRS (ISRO) : Skilled in processing geospatial data using Python and machine learning techniques.