DIYA

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PROFESSIONAL SUMMARY

Final-year Diploma student in Computer Science Engineering with a strong interest in Artificial Intelligence, Machine Learning and Python development. Hands-on experience building academic applications and projects using Python, Streamlit, SQLite, Arduino and machine-learning libraries. Eager to gain industry exposure, strengthen practical skills and contribute to real-world technology projects.

EDUCATION

Diploma in Computer Science Engineering — **Session: 2026–27**
Thapar Polytechnic College, Patiala — *Currently pursuing*

TECHNICAL SKILLS

Programming	Python
AI & Machine Learning	Scikit-learn, TensorFlow, Machine Learning Fundamentals, Deep Learning Fundamentals
Data Analysis	Pandas, NumPy, Matplotlib
Application Development	Streamlit, SQLite
Hardware & Embedded	Arduino, Sensor Interfacing
Development Tools	Visual Studio Code, Jupyter Notebook, Google Colab, Pygame, Arcade

PROJECTS

Student Management System

Technologies: *Python, Streamlit, SQLite, Pandas*

- Developed a student management application using Python and Streamlit.
- Used SQLite for database management and Pandas for data handling.
- Implemented an interface for managing student records.

ClosetAI – Smart Wardrobe Recommendation System

Technologies: *Python, Streamlit*

- Developed an AI-based smart wardrobe recommendation application.
- Used Python and Streamlit for application development.
- Focused on generating intelligent clothing recommendations.

AI Interview Simulator

Technologies: *Python, Streamlit*

- Developed an interactive interview simulation application using Streamlit.
- Worked on application interface design and database integration.

Smart Home Automation System

Technologies: *Arduino, MQ-2 Gas Sensor, LDR, Buzzer, LCD Display, Potentiometer*

- Developed a hardware-based smart home monitoring and automation project using Arduino.
- Integrated an MQ-2 gas sensor, LDR, buzzer, LCD display and potentiometer.
- Implemented gas detection, sensor-based monitoring and buzzer alerts.
- Gained practical experience in hardware integration and embedded systems.

TRAINING

NextGen AI Bootcamp: Agents, Intelligence & Games — **6 Weeks | Offline**
Thapar Polytechnic College, Patiala

- Studied Python Programming Fundamentals, Machine Learning Fundamentals and Deep Learning Fundamentals.
- Gained practical experience with Python libraries through project-based learning.

AREAS OF INTEREST

Artificial Intelligence | Machine Learning | Deep Learning | Python Development | AI-based Application Development