

EDUCATION

- **Thapar Institute of Engineering and Technology** Punjab,India
Masters of Technology in Artificial Intelligence; Aug. 2025 – May. 2027
- **Gitam University** Hyderabad,India
Bachelor of Technology in Computer Science and Engineering; CGPA: 7.67 Aug. 2021 – May. 2025

TECHNICAL SKILLS

- **Languages:**Python3, C, HTML5 CSS, Javascript, React, SQL,
- **Design and Modeling Tools:** Visual Studio Code, Jupyter 7.2.2, Google Colab, Microsoft 365
- **ML Libraries/Languages:** scikit-learn, TensorFlow, Keras, OpenCV, XGBoost ,LLM,Natural Language Processing,Computer Vision , PCA, PSO, Baysean Optimisation
- **Version Control:** Git/Github
- **Certifications:** IBM Data Science , Google AI Essentials,Google Data Analytics

EXPERIENCE

- **G-Electra Club, Gitam University** Hyderabad,India
Web Development Intern May 2024 - Oct 2024
 - Collaborated with a cross-functional team to develop a dynamic web application for G-Electra Club using React.js, implementing responsive and interactive UI components.:
 - Developed and integrated features including landing page, event calendar, FAQ section, login portal, and chat interface for project teams.:
 - Designed structured user flows for admins (edit and manage members, project status) and club members (project proposals, updates, team interactions).:
 - Ensured seamless UX by implementing role-based access control and interactive components like notice boards, project management dashboards, and team directories.:
 - Actively participated in Agile development cycles, contributing to sprint planning, peer code reviews, and iterative UI/UX improvements.:
- **Things Alive Solutions pvt Ltd** Bangalore,India
Web Development Intern May 2024 - June 2024
 - Designed the UI in Figma and implemented responsive components in React.js :
 - Integrated real-time vehicle data and collaborated with backend teams for smooth API flow. :
 - Conducted usability testing, improved UI, and ensured cross-browser compatibility and performance.:

PROJECTS

- **Distributed Denial of Service Attack Detection(Python/ML) :**
 - A DDoS detection model using PCA for dimensionality reduction and PSO for feature selection.:
 - Optimized a Random Forest classifier via Bayesian Optimization, achieving high accuracy on network traffic data.:
 - Evaluated performance with ROC-AUC, confusion matrix, and precision-recall metrics using real-world data.:
- **Emotion-Based Music Recommendation System(Python,ML)::**
 - Developed a desktop application using OpenCV and DeepFace (CNN-based models) to detect real-time facial emotions (happy, sad, angry) and recommend Spotify songs based on mood. :
 - Spotify Web API for user authentication (OAuth2), playlist access, and emotion-driven music recommendations, supporting genre-based and custom playlist filtering. :
 - Designed a Tkinter-based GUI for seamless interaction, displaying live webcam feed, emotion detection, and Spotify recommendations with latency optimized to under 1 second. :