

# Aditya Singh

+91-9451110293 | aroo25may@gmail.com

LinkedIn: LinkedIn | GitHub: GitHub

## EDUCATION

<b>Thapar Institute of Engineering and Technology</b> <i>Bachelor of Engineering in Computer Engineering, CGPA: 8.08</i>	Patiala, India Oct 2021 – Jun 2025
<b>Guru Nanak Public School</b> <i>12th Grade, 91.8%</i>	Chandigarh, India Apr 2019 – May 2021
<b>Manav Mangal Smart School</b> <i>10th Grade, 89.8%</i>	Mohali, India Apr 2017 – May 2019

## TECHNICAL SKILLS

- Programming Languages:** C, C++, Python, HTML, CSS, JavaScript, SQL, PL/SQL
- Libraries/Frameworks:** Django, Bootstrap, TensorFlow, Mediapipe, NumPy, Pandas
- Developer Tools:** Git, VS Code, Visual Studio
- Databases:** SQLite, MySQL
- Other Skills:** Problem-solving, Team collaboration, Mentoring, Time management

## EXPERIENCE

<b>NAS Systems Engineering Intern</b> <i>STPI (Software Technology Park of India)</i>	Jun 2024 – Jul 2024 Mohali, India
<ul style="list-style-type: none"><li>Developed and implemented a schema to connect systems to Network Attached Storage (NAS), improving data access efficiency by 30%</li><li>Developed a robust backup solution supporting daily backups, which enhanced data security and integrity, reducing data loss incidents by 40%.</li><li>Partnered with the IT team to assess system requirements and successfully implement NAS integration, meeting organizational objectives.</li></ul>	

## PROJECTS

<b>The Open Road</b> <i>Django, Bootstrap, SQLite</i>	Jun 2024 – Jul 2024
<ul style="list-style-type: none"><li>Developed and Deployed a Django-Based Blog Platform with user registration, login, post creation, and comment features.</li><li>Engineered a secure user authentication system with Django’s built-in tools, serving over 500 users with 100% reliability for registration and profile management.</li><li>Reduced database query time by 30% through optimization of Django ORM for high-efficiency CRUD operations, handling a dataset of 10,000+ records.</li></ul>	
<b>Review EZ</b> <i>Python, NLTK, FastAPI</i>	Aug 2023 – Dec 2023
<ul style="list-style-type: none"><li>Spearheaded the design and implementation of a web app that scraped reviews from 1,000+ Amazon product links.</li><li>Applied NLP techniques to analyze 1,000+ reviews, creating dynamic word cloud visualizations that improved sentiment analysis accuracy by 25% and enhanced user engagement.</li><li>Developed and deployed a scalable website using FastAPI, supporting seamless integration of sentiment analysis features for a user base of 300+ daily visitors.</li></ul>	
<b>Fashion Recommendation System</b> <i>TensorFlow, NumPy, Pandas</i>	Aug 2023 – Dec 2023
<ul style="list-style-type: none"><li>Developed and deployed a state-of-the-art Fashion Recommendation System using ResNet50 and collaborative filtering techniques.</li><li>Conducted comparative analysis of distance algorithms for KNN in a fashion recommendation system, increasing recommendation accuracy by 20% for a dataset of 50,000+ clothing items.</li></ul>	

## PATENTS

- Privacy-Preserving Multimodal Fire Detection System** (Filed Aug 31, 2024, Indian Patent Application No. 202411065970).
- Federated Learning-Enhanced Multimodal Gas Detection System** (Filed Aug 31, 2024, Indian Patent Application No. 202411065971).