

# Aditya Singh

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## EDUCATION

<b>Thapar Institute of Engineering and Technology</b> <i>Bachelor of Engineering in Computer Engineering— CGPA: 8.08</i>	Patiala, India <i>October 2021 – June 2025</i>
<b>Guru Nanak Public School</b> <i>Passed 12th standard with 91.8 percentage</i>	Chandigarh, India <i>April 2019 – May 2021</i>
<b>Manav Mangal Smart School</b> <i>Passed 10th standard with 89.8 percentage</i>	Mohali, India <i>April 2017 – May 2019</i>

## TECHNICAL SKILLS

<b>Languages:</b> C, C++, Python(3.9), R, SQL, MATLAB
<b>Libraries/Framework:</b> Tensorflow, Mediapipe, Keras, PyTorch, Pickle, Scikit-learn, OpenCV, NumPy, Pandas, Matplotlib, Seaborn
<b>Developer Tools:</b> Git, VS Code, Visual Studio
<b>Soft Skills:</b> Problem-Solving, Leadership, Teamwork, Time Management, Adaptability

## EXPERIENCE

<b>NAS Systems Engineering Intern</b> <i>STPI (Software Technology Park of India)</i>	June 2024 - July 2024 <i>Mohali, India</i>
<ul style="list-style-type: none"><li>Designed 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>Collaborated with the IT team to analyze system requirements and ensure seamless integration with NAS</li></ul>	

## PROJECTS

<b>Review EZ</b> <i>Python(3.9), NLTK, BeautifulSoup, NumPy, Pandas</i>	August 2023 - December 2023
<ul style="list-style-type: none"><li>Led the development of a web application to scrape reviews from Amazon product links.</li><li>Leveraged NLP techniques to extract key terms from reviews, generating insightful word cloud visualizations for users to grasp sentiment and trending topics.</li></ul>	
<b>Fashion Recommendation System</b> <i>Python(3.9), Tensorflow, NumPy, Pandas, CUDA</i>	August 2023 - December 2023
<ul style="list-style-type: none"><li>Designed and implemented a state-of-the-art Fashion Recommendation System using ResNet50 and collaborative filtering techniques.</li><li>Conducted a comprehensive analysis of different distance algorithms for K-Nearest Neighbors (KNN) in a Fashion Recommendation System.</li></ul>	
<b>ISL Translator</b> <i>Python(3.9), Mediapipe, OpenCV, Scikit-learn, NumPy, Pickle</i>	March 2023 - April 2023
<ul style="list-style-type: none"><li>Developed an Indian Sign Language (ISL) Translation System using a Random Forest model to translate hand signs into text, enhancing communication accessibility.</li><li>Designed a User-Friendly Interface for real-time sign language translation, improving usability for users with hearing impairments.</li></ul>	

## PATENTS AND PUBLICATIONS

<ul style="list-style-type: none"><li>* <b>Indian Patent, Application No.</b> 202411065970, "PRIVACY-PRESERVING MULTIMODAL FIRE DETECTION SYSTEM," Filed Aug 31, 2024, Published Sep 20, 2024. Inventor(s): Aditya Singh</li><li>* <b>Indian Patent, Application No.</b> 202411065971, "FEDERATED LEARNING-ENHANCED MULTIMODAL GAS DETECTION SYSTEM," Filed Aug 31, 2024, Published Sep 20, 2024. Inventor(s): Aditya Singh</li></ul>	
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