

# Shail Pradhan

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## EDUCATION

Bachelor of Technology in Computer Science and Engineering	2022 - Present
Sikkim Manipal Institute of Technology, Sikkim	
CGPA: <b>8.80</b>	
Delhi Public School, Siliguri (CBSE 12th) - <b>87.6%</b>	2020 - 2022
Manjusri Public School, Sikkim (CBSE 10th)- <b>93%</b>	2014 - 2020

## SKILLS

- Programming Languages: Java, Python, C++ (Basics)
- Libraries/Frameworks: Spring Boot, TensorFlow, Keras, Pandas
- Tools/Platforms: Git, GitHub, Linux, Docker, Jupyter
- Databases: MySQL, PostgreSQL
- Data Analysis using Python
- Problem solving orientation
- Excellent interpersonal abilities
- Team-work and collaboration
- Adaptability and flexibility

## EXPERIENCE

<b>Hand Gesture Recognition Using Deep Learning</b>	August 2023 - Present
<b>Academic Research   Research Assistant</b>	SMIT

- Worked with Professor Jhuma Sunuwar on a project focused on recognizing Nepali sign language.
- Created a tailored dataset consisting of 8,000 images utilizing data augmentation methods.
- Achieved 91% accuracy with VGG16 and 99% accuracy with ResNet50 using transfer learning.
- Tackled the shortage of available datasets to enhance accessibility for Nepali sign language.
- Technologies/Tools - TensorFlow, Keras, Pandas, OpenCV, matplotlib

## PROJECTS

<b>Early Warning System for Glacial Lake Outburst Flood</b>	Smart India Hackathon '24
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- Developed a predictive system for Glacial Lake Outburst Floods (GLOFs) using Random Forest Classifier and Regressor. Aimed to improve climate resilience and promote sustainable glacial lake management, reducing potential losses.
- Technologies/ Tools - scikit-learn, pandas

### E-commerce Website

- Created a responsive, website designed to simplify the food ordering experience. Key features include secure user authentication, effortless cart management, and integrated payment options.
- Technologies/ Tools - Javascript, Html, CSS, Firebase.

### Book Recommendation using Machine Learning

- Built a machine learning-based recommendation system to suggest books using collaborative filtering techniques to propose relevant titles based on individual user preferences.
- Technologies\ Tools - pandas, scikit-learn, Stream Lit.

## CERTIFICATIONS

- Programming in Python - Coursera
- Introduction to Backend Development - Coursera
- AI/ML for Geodata Analysis - ISRO, IIRS
- Introduction to TensorFlow - Coursera

## EXTRACURRICULAR ACTIVITIES

- Member, IEEE Event Management Committee
- Smart India Hackathon '24  
Second place at the College Level
- Runner-up in the inter-department football competition.