

# SANYAM PANDITA

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## EDUCATION

### Chandigarh University

[2021 to 2025]

B.E. CSE (Hons.) with Specialization in AI and ML (Grade: 8.15)

### Delhi Public School Indirapuram

[2021]

12th Class (Grade: 89.8%)

## WORK EXPERIENCE

### DRDO | [Intern](#)

[July 23 to Aug 23]

- Designed and implemented a Convolutional Neural Network (CNN) model for image recognition at DRDO, achieving a 95% accuracy compared to previous methods. Used TensorFlow and Python libraries to implement the model.
- Implemented AES Block Cipher technology to optimize secure encoding practices, reducing encryption time and enhancing data protection through proficient use of cryptographic techniques.

## PROJECTS

### Object Detection Using Machine Learning | TensorFlow

- Coordinated a team of 5 students and contributed to developing a YOLO v5-based object detection model that achieved 90% accuracy in identifying and classifying 20 different object types.
- The model leveraged TensorFlow Lite for efficient integration with an Android app, resulting in a 30% reduction in inference time for real-time object detection on the device.

### Project Churn Prediction Using ANN

[[Github Code](#)]

- Conducted data processing, visualization, label encoding, and one-hot encoding on a dataset of 7,000+ customer records.
- Built an Artificial Neural Network (ANN) model using TensorFlow and Keras, achieving an accuracy of 77% in predicting customer churn.
- Evaluated the model using a confusion matrix with 81% precision and 88% recall.

### Movie Recommendation System

[[Github Code](#)]

- Performed data preprocessing on a dataset of 5,000+ movie reviews, including cleaning, transforming, and scaling.
- Applied vectorization and natural language processing (NLP) concepts such as stemming.
- Deployed the model using Firebase, overall achieved a recommendation accuracy of 85%.

## ACHIEVEMENTS

- Achieved a Silver Medal in 'An Introduction to Programming through C++' - IIT Bombay on [NPTEL](#).
- Solved over 200+ Data Structures And Algorithms Questions on various coding platforms like [Leetcode](#), [Code Studio](#), [Code Chef](#), and [GFG](#).

## SKILLS

- **Technical:** C | C++ | Python
- **Libraries:** Numpy | Pandas | Matplotlib | Scikit-learn | TensorFlow | OpenCv | NLTK
- **Databases:** SQL | MySQL
- **Dev Tools:** Visual Studio Code | Git | Github
- **Soft Skills:** Communication | Leadership | Team Work | Problem Solving |
- **Domains:** Software Engineering | Machine Learning | Deep Learning | NLP

## CERTIFICATIONS

- Master C++ 17 & Build 10 PC Apps in 2022 – Novice to Expert – [Coursera](#)
- Python for Data Science and Machine Learning Bootcamp - [Udemy](#)
- Course Certificate for Supervised Machine Learning: Regression and Classification – [Coursera](#)
- Complete Machine Learning & Data Science Program (In Progress) - GFG