





Piya Bhalla

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EDUCATIONAL QUALIFICATIONS

Year	Degree/Certificate	Institute/School	CGPA / %
2021-2025	B.E- COMPUTER ENGINEERING	Thapar Institute of Engineering and Technology, Patiala	7.24
2021	12th	Bharatiya Vidya Bhavan S L Public School (CBSE), Amritsar	95.2%
2019	10th	Sacred Heart Senior Secondary School (ICSE), Amritsar	95.8%

EXPERIENCE

Data Science Intern | Exposys Data Labs

May 2025 - June 2025

- Engineered a supervised learning pipeline to predict profit from multivariate financial inputs, leveraging statistical regression techniques.
- Executed full-cycle model development with performance validation using R^2 score and Root Mean Squared Error (RMSE).

Machine Learning Intern | Suvidha Foundation

June 2024 – July 2024

- Analyzed and compared T5, BERT, and PEGASUS for text summarization using the CNN/DailyMail dataset. Designed preprocessing and training pipelines in Google Colab, evaluated performance through ROUGE scores, and visualized results to determine the most effective model.
- Developed a news summarization model by scraping and summarizing web articles, utilizing PEGASUS, BERT, and T5 for training and evaluation.

SKILLS

Languages: C, C++, Python, SQL, JavaScript, HTML

Libraries & Frameworks: React.js, Next.js, Pandas, NumPy, Scikit-learn, OpenCV, NLTK

Technologies & Tools: Firebase, Firestore, Cloudinary, Git, GitHub, CSS, VS Code, Jupyter Notebook, Google Colab

Relevant Coursework: Data Structures & Algorithms, Machine Learning, Deep Learning, Data Science, Database Management Systems, OOPs

Soft Skills: Attention to detail, Problem-solving, Analytical thinking, Leadership

PROJECTS

Neuramini – AI Powered Chatbot Platform

- Developed and deployed a full-stack chatbot leveraging LLMs via OpenRouter for dynamic text generation and Hugging Face ViT for real-time image classification.
- Tech Stack: Next.js, React, Firebase, Firestore, Cloudinary, Hugging Face Transformers & ViT, OpenRouter (Mistral AI), CSS

Social Media Web App

- Built a full-stack social media web app with Firebase auth, editable profiles (name, bio, gender, DOB, picture), image and text post creation, real-time global feed, Medium-style claps, post deletion, and mobile-responsive UI.
- Tech Stack: Next.js, Firebase, Firestore, Cloudinary, JavaScript, React, CSS

Movie Recommendation System

- This project is a movie recommendation system that suggests similar movies based on textual data like genres, keywords, and cast. It uses cosine similarity for content-based filtering.
- Tech Stack: Python, Pandas, Scikit-learn, Numpy, Pickle.

Air Canvas

- Built a virtual drawing app using computer vision to detect hand gestures via webcam, enabling users to draw in the air on a digital canvas.
- Tech Stack: OpenCV, NumPy, Mediapipe, and Python's deque

CERTIFICATIONS

- IBM Data Science: Machine Learning & Model Deployment [Link](#)
- JPMorgan Chase Software Engineering Virtual Experience [Link](#)
- Accenture Project Management Virtual Experience [Link](#)
- Coursera Certifications [Link](#)

POSITIONS OF RESPONSIBILITY

Core Member, Thapar Food Festival

- Helped increase participation by 20%, earning recognition from the organizing committee for effective teamwork.
- Assisted in organizing and managing the Thapar Food Fest, coordinating with vendors and ensuring smooth event execution.

Hostel Committee

- Mess Secretary