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	7.20
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

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

PROJECTS

Piyapp – Social Media Web App
- Built a full-stack social media web app with Firebase auth, editable profiles (name, bio, gender, DOB, picture), image/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

SMS Spam Detection
- Created an SMS spam detection system using natural language processing to classify messages as spam or ham, achieving high accuracy rates to enhance security in communication.
- Tech Stack: Python, Pandas, NLTK, Scikit-learn.

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   *November 2023*
- 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   *August 2023 – December 2023*
- Mess Secretary

EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- Solved 200+ DSA questions on LeetCode.
- Gold medalist in the state level judo championship.
- Gold medalist in the state level abacus competition.