

# CHANCHAL ALAM

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## Technical Skills

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**Programming Languages:** Python, Java, R

**Data Science and Machine Learning:** Tableau, ML algorithms, TensorFlow, PyTorch, NLP, Deep Learning, OpenCV, Mediapipe, Computer Vision, PySpark, Large Language Models (LLMs), RAG

**Database:** MySQL, MongoDB, MS Excel

**Other Technologies:** Web Scraping, Selenium, DSA, Frontend, Backend, Figma, RapidMiner, Informatica Tools

## Experience

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**CodersCave, Data Analyst Intern**

**Oct 2023 – Nov 2023**

*Virtual Internship*

*Virtual*

- Worked on a breast cancer detection project using SVM, Logistic Regression, KNN, and Random Forest models. Achieved best accuracy of 98.24% using Logistic Regression.
- Developed a Speech Emotion Recognition system using LSTM. Visualized audio data with wave plots and spectrograms, achieving 98% accuracy in emotion classification.
- Worked on a Spam or Ham detection project using a pipeline with a vectorizer and Naive Bayes, achieving good accuracy.

## Projects

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**Facial Emotion Recognition** | *Python, OpenCV, CNNs*

**Mar 2024**

- Used OpenCV to detect faces in images or video frames using pre-trained deep learning-based methods like CNNs achieved 98% accuracy.
- Analyzed facial features like eyes, eyebrows, and mouth to classify emotions using machine learning models trained on labeled datasets.
- Integrated with webcam feeds to provide real-time emotion recognition, enabling applications like emotion-aware interfaces.

**YouTube-Video-to-Detailed-Notes-Converter** | *Python, LLM*

**Jan 2024**

- Developed an application using LLM, to automatically generate detailed notes from YouTube video transcripts.
- Streamlined the process of extracting key insights from lengthy video content, making it useful for students, researchers, and professionals.
- Enhanced the efficiency of consuming video-based information by providing well-structured and concise notes.

**Quora Text Classification** | *Python, NLP*

**Nov 2023**

- Performed data cleaning and text preprocessing using NLTK, including stop word removal, tokenization, stemming, and lemmatization.
- Created a vocabulary and converted text into numerical representation using CountVectorizer for machine learning models.
- Implemented a Logistic Regression model for text classification, achieving an accuracy of 94%.

## Certificates

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Data Analysis with Python by Jovian

Machine Learning and Data Science Program by GeeksForGeeks

Introduction to Artificial Intelligence by Kaggle

Web Development Bootcamp by Udemy

## Achievements

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Kaggle Notebook Master, ranking in the top 200 globally.

CodeChef 3-star rating with a score of 1783.

Achieved 58th rank globally in a Codechef contest.

## Education

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**Lovely Professional University**

**Sep. 2021 – Present**

*Bachelor of Technology in Data Science (Artificial Intelligence and Machine Learning)*

*Jalandhar, Punjab*

- Expected Graduation: June 2025
- Relevant Coursework: Algorithms and Data Structures, Database Management System, Operating System, Computer Network, Linear Algebra, Discrete Mathematics, Artificial Intelligence