

CHANCHAL ALAM

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Technical Skills

Programming Languages: Python, Java, R

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

Database: MySQL, MongoDB, Microsoft Excel, MS Project, Power BI

Other Technologies: Web Scraping, DSA, Hive, Figma, RapidMiner, Informatica Tools, Flask, Django

Internship

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, achieved **98%** accuracy in emotion classification.
- Worked on a Spam or Ham detection project using a pipeline with a vectorizer and Naive Bayes, achieved good accuracy.

Projects

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

Jan 2024

- Developed an application using LLM and Gemini Pro Model API key to automatically generate structured notes from YouTube video transcripts, enhancing usability for students and professionals.
- Facilitated efficient extraction of key insights, improving content consumption and boosting user productivity.

Quora Text Classification | *Python, NLP*

Nov 2023

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

Multiple Disease Detection Web Application | *Python, Machine Learning, Deep Learning*

Sep 2023

- Developed a comprehensive web application for multi-disease prediction, targeting conditions such as Diabetes, Heart Disease, Kidney Disease, Breast Cancer, Liver Disease, Malaria, and Pneumonia.
- Utilized various machine learning algorithms, including Logistic Regression, Decision Tree, SVM, KNN, Random Forest, and XGBoost, to optimize model performance and prediction accuracy.
- Incorporated deep learning techniques, such as CNNs and pretrained models, to enhance disease detection capabilities.

Certificates

Generative AI for Everyone, DeepLearning.AI

May 2024

Data Analysis with Python, Jovian

Jan 2024

Machine Learning and Data Science Program, GeeksForGeeks

Dec 2023

Introduction to Artificial Intelligence, Kaggle

Nov 2023

Achievements

Kaggle Notebook Master, ranking in the top **100** globally.

Aug 2024

CodeChef **3-star** rating with a score of **1783**.

July 2024

Achieved **58th** rank globally in a CodeChef contest.

June 2024

Education

Lovely Professional University

Sep 2021 – July 2025

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

Phagwara, Punjab

Paramount Academy Muzaffarpur

July 2018 – July 2020

Intermediate (PCM)

Muzaffarpur, Bihar