

## Akram Shammi

Phagwara, Punjab 144401

+91-9304570790 [✉ akramshammi@gmail.com](mailto:akramshammi@gmail.com) [in linkedin.com/in/akramshammi/](https://www.linkedin.com/in/akramshammi/) [github.com/ akramshammi/](https://github.com/akramshammi/)

## Projects

### Hybrid content-based News recommendation system

Oct 2024 – Nov 2024

- Developed a recommendation system that combines **TF-IDF** and **cosine similarity** to suggest relevant news articles.
- Engineered an efficient text-processing pipeline to analyze article content and compute similarity scores.
- Improved recommendation accuracy by optimizing feature extraction and weighting mechanisms.
- Tech:** Python, TF-IDF, Cosine Similarity, Scikit-learn, Pandas, Numpy

### Language Identification for Code-Mixing Sentences

Oct 2024 – Nov 2024

- Developed a language identification system for **code-mixed sentences** using **N-gram, HMM, Naïve Bayes, and Decision Tree** models.
- Analyzed multilingual text data to improve classification accuracy and language segmentation.
- Research paper based on this work was **accepted** at the **Hinweis International Conference RTET**.
- Tech:** N-gram, HMM, Naïve Bayes, Decision tree

### Movie Recommendation System using K-Nearest Neighbors (KNN)

Mar 2024 – Apr 2024

- Developed a movie recommendation system using the **K-Nearest Neighbors (KNN)** algorithm.
- Utilized **TF-IDF Vectorization** and **Cosine Similarity** to measure movie similarity based on user preferences.
- Achieved personalized movie recommendations based on genre, keywords, and user ratings.
- Tech:** Python, Pandas, Numpy, Scikit-learn and NLTK.

## Certificates

### Data Structures and Algorithms – Self Paced

Duration- 16 weeks

*Geeks for Geeks*

### Hands-On Machine Learning: Python Project Showcase

Mar 2023

*Udemy*

## Technical Skills

**Languages** Python, C++

**Technologies/Frameworks:** Django, Scikit-learn, VS code, Github

**Skills:** Data Structures and Algorithms, Problem-Solving, Scripting in Python

## Education

### Lovely Professional University Punjab

2022 – 2026

*Computer Science and Engineering — CGPA: 6.31*

*Jalandhar, Punjab*

### DAV Public School

2020 – 2021

*12th with Science — Percentage: 80.4%*

*Dhanbad, Jharkhand*

### DAV Public School

2018 – 2019

*10th with Science — Percentage: 80.6%*

*Dhanbad, Jharkhand*