

TARANDEEP SINGH

Student

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SUMMARY

Motivated data science student with hands-on experience in machine learning, deep learning, and data visualization. Proven ability to develop AI-powered applications like mood detection and medical query systems, delivering robust and user-centric solutions. Skilled in Python, Flask, and AWS, combined with strong teamwork and event organization experience. Eager to contribute analytical and coding skills in a dynamic internship environment to drive innovative projects.

PROJECTS

Moodify

AI-Powered Mood Detection & Music Recommendation App

- Built a cross-platform app (Flutter, React) with ML-based real-time mood detection.
- Integrated Spotify API for personalized recommendations; scaled to 100+ active users.

Medical Query Assistant

An application providing conversational responses to medical queries

- Developed a RAG system with Neo4j knowledge graph for conversational medical queries.
- Built an interactive Flask web app; achieved 100% robustness in testing.

Gurmukhi Handwritten Text Recognition (HTR)

A deep learning project for handwritten text recognition

- Designed a CRNN model for handwritten Gurmukhi recognition (88% accuracy).
- Created custom dataset with preprocessing and feature extraction pipeline.

Customer Purchases Analysis

Data Analysis and Visualization project on customer purchases

- Performed data cleaning, feature engineering, and exploratory analysis.
- Built static & interactive visualizations to reveal customer trends & behaviors.

KEY ACHIEVEMENTS

- Deloitte Australia Data Analytics Job Simulation on Forage - November 2025
- Secured 2nd prize in the Poster Presentation at CISTM 2025 for our project "Medical Query Assistant," a knowledge-graph-based healthcare RAG system.

EDUCATION

B.Tech Hons. (Data Science)

Akal University

08/2022 – 06/2026 | Talwandi Sabo, Punjab

Senior Secondary Education

Saraswati Vidya Mandir Inter College

04/2020 – 04/2022 | Bahraich, UP

SKILLS

AWS | C/C++ | CSS | Deep Learning |
Flask | GitHub | HTML | JavaScript |
MongoDB | Matplotlib | Neo4j | NLP |
NoSQL | Plotly | PostgreSQL | Python |
RDBMS | React | Seaborn | Python 3 |
Node.js | R | Power BI

CERTIFICATION

Python 3.4.3 Training-IIT Bombay

Training in Python programming

C Training-IIT Bombay

Training in C programming

RDBMS PostgreSQL Training-IIT Bombay

Training in RDBMS with PostgreSQL

Cloud computing - AWS - IIT Kanpur

Cloud computing training focused on AWS

NoSQL Architecture with MongoDB-IIT Kanpur

Training in NoSQL architecture with MongoDB

Beginner Full Stack Development - Udemy

Full Stack Development course for beginners