

Preet Panchal

✉ pbpanchal04@gmail.com | ☎ +91 6355247567 | 🔗 LinkedIn | 🐙 Github

CAREER OBJECTIVES

Results-driven Machine Learning Engineer with a solid foundation in ML and Deep Learning, proficient in Python, TensorFlow, and Scikit-Learn. Experienced in building scalable models, performing feature engineering, and deriving actionable insights from complex data. Eager to apply my expertise to develop intelligent systems and contribute to cutting-edge AI innovations in a dynamic environment.

SKILLS

- Programming Languages: Python, Java, SQL, C
- Frameworks & Libraries: TensorFlow, Scikit-Learn, Pandas, NumPy, Matplotlib
- Databases & Tools: MySQL, PostgreSQL, Git, GitHub, Streamlit
- Machine Learning & Deep Learning: Supervised & Unsupervised ML models, Feature Engineering, SVM, Neural Networks, CNN, RNN, NLP
- Other Skills: API Development, Prompt Engineering, Problem Solving, Analytical Thinking, Communication, Collaboration, Team Leadership

PROJECTS

- MediAgent

Engineered an **AI-driven** healthcare assistant that provides intelligent symptom analysis, dietary suggestions, and prescription interpretation. Leveraged **NLP** and **ML** models to deliver accurate medical insights, enhancing accessibility and decision-making. Built with FastAPI, React.js, and PostgreSQL, integrated with secure authentication for end-to-end user safety.

- Movie Recommendation System

Developed an AI-driven movie recommendation system leveraging **Machine Learning and NLP**. Engineered features from TMDB data and trained an **SVM model** to identify and recommend **5 similar movies** based on user input. Built an interactive frontend using **Streamlit**, enabling seamless user interaction with the recommendation engine.

- Transformers Architecture

Built a custom **Transformer** model in **PyTorch** for tasks like language translation. Integrated self-attention, encoder decoder architecture, and masking for better context learning. Optimized for GPU to enhance **NLP** applications like text summarization and machine translation.

EDUCATION

Bachelor of Computer Application (B.C.A.)

Aug 2022-2025

The Oxford College of Science

EXTRA-CURRICULAR ACTIVITIES

- Vice President and Core Member of IT Club
- Event Coordinator for Tech Fest and Events
- Active Chess Player

CERTIFICATIONS

- Crash Course on Python by Google – Coursera 2024
- Version control with Git & GitHub by Google – Coursera 2024
- Interaction with OS using Python by Google – Coursera 2024