

ASHUTOSH PATEL

Computer Science Student

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Career Objective

I am a motivated Computer Science student skilled in machine learning and software development. I have experience deploying scalable solutions and working with Python, CPP, SQL, and related development tools. I thrive in challenging environments and continually seek to enhance my technical expertise while contributing positively to team projects.

Skills

Programming Languages: C++, Python, HTML5, CSS3, Java

Tools/Technologies: Pandas, NumPy, Deep Learning, TensorFlow, OpenCV, DICOM, Tailwind, Google Firebase, Random Forest, Linux, GitHub, VS Code

Database: SQL, MySQL

Core Concepts: Data Structures and Algorithms, Object-Oriented Programming, Operating System, Computer Networks

Industry Experience

Intern

Noida

Open Health Systems Laboratory (OHSL)

June-August 2025

Worked on requirement gathering, system analysis, and architecture design for radiology data integration using Orthanc and OHIF.

- Participated in requirement gathering and system analysis for a radiology data integration project
- Studied DICOM image storage and management using Orthanc
- Analyzed API-based retrieval workflows for displaying images in OHIF viewer
- Evaluated system for data flow for medical image storage, access, and visualization
- Assisted in creating wireframes to define user interface and workflow structure

Projects

Legal Document AI System | *Python, PyTorch, Scikit-learn, Pandas*

Developed a Legal AI system for contract analysis and clause extraction by fine-tuning on the CUAD dataset, achieving **EM: 79.15% and AUPR: 74.93%** with improved accuracy and reliability.

- Worked on Legal AI project using CUAD dataset for contract analysis and clause extraction
- Performed fine-tuning of the model on domain-specific legal data to improve performance
- Achieved Exact Match (EM): 79.15% and AUPR: 74.93%, improving accuracy and reliability
- Contributed to data preprocessing, system design, and evaluation strategy
- Research paper titled "LexAI: A Dual-Head Fusion-Based Framework for Automated Legal Contract Analysis" has its **abstract accepted** at **International Conference on Legal and Regulatory Frameworks in Artificial Intelligence (ICLRFAI - 26)**

Hand Sign Recognition | *PyTorch, Opencv, MediaPipe*

A project aimed at developing a system for real-time hand sign recognition to aid communication

- Developed an AI-powered system for real-time hand sign translation using deep learning and computer vision
- Collected and preprocessed a dataset of hand gestures, implementing TensorFlow and OpenCV for accurate sign recognition
- Designed a robust CNN model to classify gestures and convert them into text or speech output
- Optimized model accuracy through data augmentation, hyperparameter tuning, and transfer learning
- Integrated a user-friendly interface for accessibility, making the system applicable for communication aid

House Price Prediction | *Scikit-learn, Python, Seaborn*

A project focused on predicting house prices using regression analysis

- Developed a predictive model to estimate house prices based on various parameters
- Preprocessed a real estate dataset by handling missing values, encoding categorical variables, and normalizing features
- Implemented multiple regression models like Linear Regression, Decision Trees, and Random Forest to compare accuracy
- Evaluated model performance using RMSE, R2 score, and cross-validation techniques

Education

Amity University

Noida

Btech in Computer Science Engineering

June 2022-September 2026

Interests

Alias Tech Club, Volunteer

Conducted workshops and hands-on sessions on Linux, Python, and Full-Stack Development. Assisted students with technical queries, project guidance