

# KULDEEP SINGH

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Linkedin

Github

## EDUCATION

### VIT Bhopal University

B.Tech - Computer Science and Engineering

8.32

2022 - 2026

## TECHNICAL SKILLS

**Languages:** Python, C++, JavaScript, SQL

**Frameworks/Libraries:** Pandas, Scikit-learn, Flask

## PROJECTS

### House Price Prediction Model | Python, Flask, ML, HTML, CSS, Scikit-learn

Apr 2025

- Built a machine learning web app to predict house prices based on features like location, room count, size, and amenities.
- Handled missing values, encoded categories, and scaled features to improve model accuracy.
- Used Linear Regression and optimized it via Grid Search Cross-Validation.
- Integrated the model into a Flask API for real-time predictions.
- Developed a responsive UI with HTML/CSS for easy input and output visualization.
- Used Matplotlib and Seaborn to visualize feature trends and insights.
- Tested and deployed the app locally, ensuring smooth functionality.

### Image Text-to-Speech Model | Python, OpenCV, Pytesseract, gTTS, Tkinter

Nov 2024

- Developed a Python GUI application that extracts text from images and converts it into speech.
- Used Pytesseract for Optical Character Recognition (OCR) to extract text from uploaded images.
- Integrated gTTS to convert extracted text into natural-sounding speech.
- Designed user-friendly GUI using Tkinter to upload images and control speech output.
- Implemented audio playback controls (play/pause/stop) using Pygame and saved output as MP3.
- Handled errors for invalid images, empty text extraction, and network failures.

## CERTIFICATIONS

- Introduction to Machine Learning – Kaggle
- Cloud Computing – NPTEL
- Salesforce Developer – Ethnus

## CO-CURRICULAR ACTIVITIES

### HackOn Amazon Hackathon — Participant

Jun 2025

- Participated in Amazon's national-level HackOn hackathon and successfully cleared Round 1.
- Collaborated in a team to ideate and present an innovative tech-based solution under time constraints.

### Robo Race – Robotics Club — Runner-up

Dec 2023

- Built a working race car using cardboard, recycled motors, and basic circuitry for the robotics competition.
- Secured Runner-up position among multiple teams in the Robo Race event conducted by the club.

## EXTRA-CURRICULAR ACTIVITIES

### Disciplinary Committee Volunteer – Saraswati Puja Celebration

Volunteered as part of the disciplinary committee to ensure smooth and respectful conduct during campus Saraswati Puja celebrations.

## HOBBIES & LANGUAGES

- **Languages:** Fluent in English and Hindi;
- **Hobbies:** Reading books, listening to music, watching movies, and learning new things.