KULDEEP SINGH

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EDUCATION

VIT Bhopal University   **2022 − 2026**
*B.Tech - Computer Science and Engineering - **CGPA** - **8.27***   *Bhopal, Madhya Pradesh*

CAREER OBJECTIVE

To leverage my skills in software development, machine learning, and cloud technologies to contribute effectively to innovative projects, while continuously enhancing my technical expertise and professional growth in a dynamic and challenging environment.

PROJECTS

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

Text-to-Speech Model | Python, gTTS, Tkinter
- Created a Python GUI app to convert user-input text into speech using gTTS.
- Supported multiple languages with natural-sounding speech output.
- Built GUI with Tkinter to input text, choose language, and control playback.
- Added audio control (play/pause/stop) with Pygame and saved speech as MP3s.
- Included error handling for invalid inputs, codes, and connection issues.
- Tested app across platforms for clear pronunciation and smooth operation.

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, SQL, HTML5, CSS3
Technologies/Frameworks: NumPy, Pandas, Scikit-learn, TensorFlow, Keras, Matplotlib, Seaborn, Flask, Node.js, Express.js, Bootstrap
Cloud DevOps: AWS, Google Colab, Git, GitHub
Developer Tools: Jupyter Notebook, VS Code, PyCharm

ACHIEVEMENTS

NPTEL Certification: Achieved Silver Elite status in NPTEL Cloud Computing course
Hackathon: Ranked among Top 1800 teams out of 52,000+ in HackOn Amazon Hackathon
Problem Solving: Solved over 250+ Data Structures and Algorithms problems across platforms

CERTIFICATIONS

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

EXTRACURRICULAR

- Participated in multiple hackathons focused on innovation and problem-solving
- Secured Runner-up position in Robo Race conducted by the Robotics Club