# PRIYA SINGH

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## EDUCATION

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| **VIT Bhopal University** | **2023 – Ongoing** |
| *Bachelor of Technology -* ***CGPA*** *-* ***8.51*** | *Bhopal, India* |

## PROJECTS

**Image Classification Using CNN** ☑ | Python, TensorFlow, Keras, OpenCV, Pillow                    **Aug 2024**

* Developed a CNN-based image classifier with 93 % accuracy, leveraging TensorFlow, Keras, and OpenCV for efficient image recognition.
* Optimized model performance through advanced preprocessing, data augmentation, and hyperparameter tuning for robust classification.
* Built as a foundational model for future object detection projects, enabling feature extraction and transfer learning.
* GitHub Repository

**Health-Insurance-Cost-Predictor** ☑ | Python, Machine Learning, Scikit- Learn                    **Feb 2024**

* Implemented a Machine Learning Model to predict health insurance costs based on six key features such as age, BMI, smoking status, and region.
* Trained and compared multiple regression models including Linear Regression, Random Forest, Decision Tree, and XGBoost, evaluating their performance using metrics like RMSE and $R^2$.
* Optimized model selection by choosing the best-performing algorithm, which provided the highest accuracy, and deployed it for real-time cost predictions.
* GitHub Repository

## EXTRACURRICULAR AND ACHIEVEMENTS

* Actively learning and contributing to open-source projects, focusing on St. Jude Children's Research Hospital and web development technologies like PHP, JavaScript, and REST APIs.
* Participated in the Gen AI Hackathon, developing an AI-driven Traffic and Crowd Monitoring System under the Smart Governance theme.
* Solved 200+ problems on platforms like LeetCode, CodeChef, and Codeforces, improving problem-solving and algorithmic skills.

## TECHNICAL SKILLS

**Languages:** Java, C++, HTML,CSS, JavaScript,Python
**Developer Tools:** VS Code, Github
**Other Skills:** Data Science, Machine Learning, DSA, OOPs, Pytorch , TensorFlow, Neural Networks, NLP

## ADDITIONAL INFORMATION

**Hobbies:** Indian Classical Music, Mathematics, Problem Solving
**Languages:** Hindi,English