

# ASHREEN KAUR

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## EDUCATION

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**Vellore Institute of Technology, Bhopal**  
Bachelor of Engineering, Computer Science

2023 - 2027  
CGPA: 8.36/10

## PROJECTS

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### OpenGL City Skyline

*C++, OpenGL, GLUT*

*Link to [Repository](#)*

- Developed a realistic 3D city skyline using OpenGL and GLUT, featuring animated elements like moving clouds and cars.
- Created detailed buildings, trees, and environment features through texture mapping, coloring and geometric transformations.
- Optimized rendering performance for smooth visualization, handling multiple objects efficiently

### Movie Recommendation System using SVD

*SVD, Machine Learning, NumPy, Pandas*

*Link to [Repository](#) & [Colab Notebook](#)*

- Developed a collaborative filtering-based movie recommender system using Singular Value Decomposition (SVD).
- Implemented Power Iteration with Deflation to efficiently compute dominant singular values and vectors.
- Processed and optimized a User-Item rating matrix for better prediction accuracy.
- Enhanced computational efficiency by using custom matrix factorization techniques for large datasets.

### Harmful Object Detection Webapp

*Computer Vision, Object Detection, RCNN, Webapp*

*Link to [Repository](#)*

- Custom-trained, compared, and combined various Object Detection Models to improve the accuracy of output.
- Developed a user-friendly Web Interface where users can seamlessly upload videos and images for harmful or illegal object detection like guns and knives, ensuring enhanced safety and security.

## SKILLS

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<b>Domains</b>	Data Structures & Algorithms, Software Development, Data Science, Data Analytics & Visualization Artificial Intelligence, Machine Learning, Deep Learning, Database Management, Computer Graphics
<b>Languages</b>	Python, C/C++, Java, MATLAB, PROLOG, SQL
<b>Libraries</b>	Seaborn, Plotly, NumPy, Pandas, Sklearn, Streamlit
<b>Software</b>	Git/GitHub, Kaggle, Google Colab, VirtualBox, Replit

## ACHIEVEMENTS

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- Google Cloud Introduction to Generative AI: [Completion Badge](#)
- Google Cloud Prompt Design in Vertex AI Skill Badge: [Completion Badge](#)
- Google Cloud Real World AI Applications with Gemini and Imagen: [Completion Badge](#)
- Kaggle Intermediate Machine Learning: [Completion Badge](#)
- Google Cloud Data Analytics: [Completion Badge](#)
- Matlab Training: [Certificate of Completion](#)