

**Priyanka Kumari**  
Swetapriya2612@gmail.com | [priyanka-kumari26 \(Priyanka Kumari\) · GitHub](#) | [Priyanka Kumari | LinkedIn](#)



Pre-final year student in Computer Science at PES University, my academic journey has fueled my passion for Machine Learning, Deep Learning, and Data Analytics. I am proficient in languages such as Python, and have hands-on experience with ML frameworks like TensorFlow and PyTorch. I have completed various projects involving predictive modeling, data visualization, and neural network implementation. I am keen on leveraging my analytical skills and technical expertise to contribute to innovative solutions in the field of data science.

**Education**

<b>PES University RR Campus, Bangalore</b> <i>Bachelor's of Technology in Computer Science Engineering</i>	Sep 2022 - Present CGPA: 7.96
<b>Army Public School, Jalandhar Cantt</b> <i>Higher Senior Secondary</i>	April 2019 - May 2021 Percentage: 96%

**Skills**

- **Language:** Python, C, C++, Golang
- **Web development:** HTML, CSS, MERN (MongoDB, React.js, Express.js)
- **Frameworks:** Flask, Leaflet, Google Maps API, Pandas, TensorFlow, Git, Data Analytics, Numpy

**Work Experience**

<b>Center for Data Science and Applied Machine Learning, Bangalore (CDSAML) - Summer Intern</b>	June 2024 - July 2024
<b>Project: VISION:</b> Video Inpaintingselected among top 4 teams in final for Seamless Instant Object Removal and Background Reconstruction	
<ul style="list-style-type: none"><li>• Researched and developed video inpainting techniques for seamless object removal and background reconstruction.</li><li>• Used SpaCy for semantic understanding and CLIP/Detectron2 for object detection.</li><li>• Developed masks with OpenCV and implemented frame restoration using graph-based and diffusion methods and validate the inpainting models.</li></ul>	

**Projects**

**VISION:** Video Inpainting for Seamless Instant Object Removal and Background Reconstruction

- Semantic Understanding: Used SpaCy for precise target identification.
- Instance Segmentation: Applied CLIP and Detectron2 for object detection.
- Mask Generation: Created masks with OpenCV.
- Frame Restoration: Employed graph-based algorithms and diffusion methods for high-fidelity results.

**Personal Finance Tracker**

- Built a full-featured expense tracker application using the MERN stack (MongoDB, Express.js, React, Node.js).
- Utilized MongoDB Atlas for secure, cloud-based data storage and management.
- Implemented features for adding, categorizing, and tracking expenses and develop dynamic charts and graphs.

**Geospatial Analysis for Rural Business Correspondent Activities**

- Analyzed demographics and infrastructure data to identify optimal rural areas for business correspondent activities to support rural economic development by pinpointing strategic location.
- Applied machine learning algorithms like k-means clustering and regression for data analysis.
- Created interactive maps using Leaflet, Google Maps API, and Geocoding API.
- Developed the project using Python and Flask for robust analysis and visualization.

**Certificates**

<b>PESU IO in Beginner's Guide to Data Science and Machine Learning</b>	(09/2022 - 10/2022)
This course explores data analysis, predictive models using regression, classification using KNN and logistic regression. Introduced to neural networks and k mean clustering.	

**Hackathons**

<b>Morgan Stanley's Code to Give 2025 Hackathon</b>	03/2025 (21 <sup>st</sup> – 27 <sup>th</sup> )
Got selected among the top 4 teams in final	
<b>Selected for Grand Finale Terratech Grameen Foundation (National level hackathon)</b>	02/2024 - 03/2024
Got selected in Top 13 as finalist	
<b>Hackfest (National level hackathon)</b>	04/2024
Got Selected in Top 10	
<b>Hashcode (State level Hackathon) PESU Innovation lab</b>	
Got selected in Top 30 teams	
<b>Confluence by IEEE CS (National Level Hackathon) PES University</b>	04/2025
Got Selected in Top 12	

**Achievements**

<b>Winner of Develop for Her Ideathon</b>	03/2023
The solution HerByte aims to bridge the gender gap in the field of STEM by providing a multilingual one stop platform which provides timely information on various opportunities for female student.	

**Clubs**

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| <ul style="list-style-type: none"><li>• Nexus PES University – AIML Domain Member</li><li>• ACM-W PES University – Technical Team Member</li></ul> | Mar 2023 – Present<br>Oct 2024 - Present |
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