Priyanka Kumari
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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

PES University RR Campus, Bangalore Sep 2022 - Present
Bachelor's of Technology in Computer Science Engineering *CGPA: 7.96*
Army Public School, Jalandhar Cantt April 2019 - May 2021
Higher Senior Secondary *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

Center for Data Science and Applied Machine Learning, Bangalore (CDSAML) - *Summer Intern* June 2024 - July 2024
Project: VISION: Video Inpaintingselected among top 4 teams in final for Seamless Instant Object Removal and Background Reconstruction

- Researched and developed video inpainting techniques for seamless object removal and background reconstruction.
- Used SpaCy for semantic understanding and CLIP/Detectron2 for object detection.
- Developed masks with OpenCV and implemented frame restoration using graph-based and diffusion methods and validate the inpainting models.

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 chars and graph.

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

PESU IO in Beginner's Guide to Data Science and Machine Learning (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

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

Achievements

Winner of Develop for Her Ideathon 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

- Nexus PES University – AIML Domain Member Mar 2023 – Present
- ACM-W PES University – Technical Team Member Oct 2024 - Present