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
Bachelors of Technology in Computer Science Engineering — *CGPA: 7.90*
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 Inpainting 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

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
Hallothon (State Level Hackathon) PES University
Got Selected in Top 40

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