

Priyansh Singh

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About Me

A proactive and technically skilled final-year Computer Science student specializing in AI and ML, seeking a challenging role to apply my expertise in machine learning and software development. Eager to leverage my problem-solving abilities, technical acumen, and collaborative skills to drive innovative solutions and contribute meaningfully to the organization's success.

Education

VIT University

B.Tech in CSE with AIML (2021-25)

Current CGPA - 8.31

Teens World Corporate School

Senior Secondary (XII), Science - 2021

CBSE Board - 74.8%

U.S. Ostwal English Academy

Secondary (X) - 2019

CBSE Board - 84.2%

Skills

- Data Science - AI ML, Deep Learning , NLP
- Programming - Java , Python(basic)
- Full Stack (Basic) - HTML, CSS, Bootstrap, JS, React JS, Flask,Django
- Data Analytics - Power BI
- Cloud - AWS
- Operations - Github, Version Control

Certifications

- Amazon certified AWS Solutions Architect (2024 - 2027)
- Artificial Intelligence Primer Certification (SpringBoard)
- Principles of Generative AI (SpringBoard)
- Java Data Structures and Algorithms Masterclass by Elshad Karimov (Udemy)

Projects

Rail Accident Prevention System [ECS(2nd prize)]

- Objective:** To develop a rail safety system that detects track cracks, enhances fog visibility, and checks loop line availability, allowing safe train passage using sensors and image processing on a Raspberry Pi.
- Skills:** Arduino, RaspberryPi, Sensors, Open CV - Python, Video Processing.

Fish Monitoring System

- Objective:** To develop an automated system for monitoring water temperature, pH levels, and identifying fish species in a tank using a Raspberry Pi, sensors, and an AI model ('EfficientDet-Lite0' - TensorFlow Lite).
- Skills:** Machine Learning, Data Preprocessing, Python.

ASL (American Sign Language) Classification

- Objective:** Leveraged advanced computer vision and machine learning algorithms to analyze and classify American Sign Language gestures .
- Skills:** Machine Learning, Deep Learning, Python, Data Preprocessing, CNN.

Internships

Infosys Springboard Internship 5.0 *October - Present*

- Developing a handwritten digit recognition model using PyTorch.
- Utilized the MNIST dataset to train and evaluate model performance.
- Will Implement multiple model architectures, including MLP, CNN, and LeNet-5, to compare and identify the optimal approach for digit classification.

PyramidAI Hub (Retail Automation) *May 2024 - July 2024*

- Implemented YOLOv10 object detection to track product placement, improving visibility and accuracy by 92%.
- Utilized SAM for precise image segmentation to enhance product labeling and shelf analytics in planograms.
- Developed image recognition for planogram compliance, and correct placement of products.

ITT Summer Internship AI ML *January 2024 - March 2024*

- Developed an Amazon Prime recommendation system using the "Amazon Prime Movies and TV Shows" dataset.
- Compared ML and NLP algorithms for optimal performance.
- Implemented Cosine Similarity and TF-IDF vectorization for recommendations.
- Created a Flask app for an interactive user interface.

References

Baishalini Sahu

Lead Data Science
Consultant

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