

PINAKI PRIYA

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Education

Vellore Institute of Technology, Bhopal (2022 – 2026)

B.Tech Computer Science and Engineering(Health Informatics) [CGPA: 8.97]

Bhopal, Madhya Pradesh

SKP Vidya Vihar (2018 – 2020)

Intermediate

Bhagalpur, Bihar

St Teresa School (2017 – 2018)

Metriculation

Bhagalpur, Bihar

Technical Skills

Languages: Java, Python, JavaScript, MySQL, HTML, Bash

Frameworks & Tools: Django, Node.js, MERN stack, Git, Postman, Android Studio

Technologies: REST APIs, AI/ML, DL, IoT, Agile, Linux (Ubuntu), Packet Tracer

Cloud & Platforms: Microsoft Azure, Google Cloud, IBM SkillsBuild

Projects

Life+ | AI-Powered Healthcare Data Optimization

08/2023 – 10/2023

- Developed an AI-driven medical data platform using Python and scikit-learn, improving system stability by 30% and implementing a tumor detection model with 85% precision and 90% recall for early diagnosis.
- Designed interactive Matplotlib dashboards that enhanced data comprehension by 40%, while Agile implementation boosted team productivity by 20% through optimized development cycles.

Diabetic Retinopathy Detection | Deep Learning

03/2024 – 05/2024

- Engineered a hybrid deep learning system using EfficientNetB3 and InceptionV3, achieving 98-99% accuracy on 3,500+ retinal images through advanced transfer learning techniques, while improving processing speed by 50% via real-time analytics integration.
- Developed an automated assessment pipeline that standardized medical image evaluation, reducing quality assurance time by 40% and ensuring consistent diagnostic outcomes across healthcare providers.

Assistive Object Detection | IoT + ML

08/2024 – 04/2025

- Designed an IoT-optimized navigation system using MobileNet SSD v3 (benchmarked against YOLOv4/v5/v8 and Faster R-CNN) trained on augmented COCO dataset with custom obstacle classes (manholes, stairs, etc.), achieving 92% detection accuracy.

Achievements

IBM Cybersecurity Analyst: Certified in SIEM, threat detection, and foundational network security concepts.

MERN Certification: Completed MERN stack certification under Ethnus with A grade (92/100); developed a full-stack CRUD application using MongoDB, Express, React, and Node.js.

Postman API: Earned Student Expert badge by completing Postman's REST API development and testing challenge.

Microsoft Azure & Google: Earned 8 badges and 1 trophy in Azure OpenAI modules; completed the 'Bits and Bytes of Computer Networking' course by Google.

Experience

Winter Intern | India Space Lab

12/2024 – 01/2025

- Completed an intensive merit-based winter internship, gaining proficiency in key future-space technologies including drone assembly flight dynamics, student satellite (CubeSat) architecture, and the business fundamentals of space-tech entrepreneurship through a structured government-affiliated curriculum.

Cybersecurity Intern | The Red Users

02/2025 – 03/2025

- Gained hands-on experience in monitoring and analyzing system security using Wireshark. Researched emerging cyber threats and attack vectors to support the security team's proactive defense strategies.

Extracurricular

Hackathon & Workshop Organizer at Bashcraft Club: Led hackathons and tech workshops for 100+ students, fostering peer learning and generating 50+ GitHub projects.

ML Workshop, VITronix IEEE: Strengthened applied AI skills through hands-on model training and deployment sessions.

DEVTALK Podcast Member: Participated in team-led podcast sessions focused on tech awareness and communication.

IoT Quiz Winner, Cranes Varsity: Won 1st place in a 2-day IoT challenge, showcasing problem-solving with Raspberry Pi and embedded systems.