Pinaki Priya

Auliabad, Bhagalpur, Bihar 853201
8825127200 pinakipriya2k@gmail.com linkedin.com/in/pinaki-priya github.com/Pinaki044

Professional Summary

Computer Science Engineering student skilled in **Java, Python, DSA, MERN stack, and Django**. Experienced in **AI/ML projects, REST APIs, and backend development** with a focus on building efficient, real-world applications.

Education

VIT Bhopal (2022 – 2026)

Bachelor of Technology in Computer Science and Engineering [CGPA: 8.93] *Bhopal, Madhya Pradesh*

Technical Skills

Languages: Java, Python, JavaScript, MySQL, HTML/CSS, Bash
Frameworks & Tools: Django, Node.js, MERN stack, Git/GitHub, 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 + AI* **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 on Raspberry Pi hardware.
- Engineered a complete data pipeline for annotation/preprocessing and deployed the real-time audio alert system, reducing obstacle collision incidents by 60% in user trials while maintaining ¡2W power consumption on edge devices.

Achievements

IBM Cybersecurity Analyst: Certified in SIEM, threat detection, and foundational network security concepts.
Ethnus Internship: Completed MERN stack internship 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.
India Space Lab: Completed winter internship focused on Drone Technology, CubeSat systems, and space-tech entrepreneurship.
Microsoft Azure & Google: Earned 8 badges and 1 trophy in Azure OpenAI modules; completed the 'Bits and Bytes of Computer Networking' course by Google.
Cybersecurity Exposure: Gained hands-on experience during 1-month internship under The Red Users.
Hackathons & Quizzes: Participated in 38+ coding contests, hackathons, and technical quizzes; recognized for analytical skills, teamwork, and innovation.

Extracurricular

Hackathon & Workshop Organizer: Led five hackathons and ten tech workshops for 200+ 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.