Adityakeerti

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Summary

Final-year Computer Science student specializing in **Full-Stack Development** and **AI/ML**. Expertise in building scalable **REST APIs**, **Microservices**, and production-ready automation pipelines. Strong foundation in **Data Structures, Algorithms (DSA)**, and **OOPs**. Proven track record of optimizing workflows by **30x** and achieving **99%+** accuracy in computer vision tasks. Seeking internship to leverage skills in backend engineering and cloud computing.

Academic Details

Degree	University	Year	Result
B.Tech CSE (AI-ML)	Graphic Era Hill University, Dehradun	2023–27	7.43 CGPA

Technical Skills

Languages & Core: Java, Python, SQL, TypeScript, Dart, Data Structures & Algorithms, OOPs
Frameworks: Spring Boot, FastAPI (REST APIs), Flask, React.js, Flutter, OpenCV, YOLO
Tools & Cloud: Git/GitHub (Version Control), Postman, MySQL, SQLite, n8n, PyTorch

Internship

Peerprep — Software Engineering Intern Sep 2025 – Nov 2025

- Engineered an OpenCV + OCR pipeline with document detection, perspective correction, and text extraction to digitize academic marksheets across multiple education boards.
- Automated conversion of scanned PDFs/images into validated digital records, significantly reducing manual data entry effort.

Work Experience

- **Commercial Deployment:** Solution achieved 100% accuracy and is currently deployed by Integrated Maritime Exchange.

Projects

AI-Driven Dynamic Credit Limit Optimization (RL) ***GitHub*** Jan 2026

- Implemented an offline **Double DQN** policy in **PyTorch** to dynamically adjust credit limits and optimize risk-adjusted profit under portfolio constraints.
- Built a **FastAPI**-based decision gateway handling **5000+ real-time evaluations/min** with sub-second latency and auditable inference logs, maintaining portfolio risk below 7%.
- Integrated **n8n agents** to automate credit workflows, reminders, and operational triggers over simulated currency, increasing spending efficiency by 8%.
- *Tech Stack: Python, PyTorch, Reinforcement Learning, FastAPI, n8n, MySQL*

DOC OC – Automated Marksheet Extraction System ***GitHub*** Sept 2025 – Oct 2025

- Engineered a multi-board extraction pipeline using **YOLO** and **Table Transformers**, achieving **99.98% accuracy**.
- Developed scalable **REST APIs** using **FastAPI** and **MySQL** with a **React** frontend for structured data parsing.
- Optimized administrative workflows to reduce processing time by **30x** (10 mins to ∼30s) per marksheet; developed under the guidance of Dr. Prof. Ashish Garg.
- *Tech Stack: Python, FastAPI, React, TypeScript, YOLO, MySQL, Microservices*

Pustak Tracker – Library Management System ***GitHub*** Aug 2025 – Nov 2025

- Architected a full-stack library solution using **Flutter** (Mobile) and **Flask** (Backend) for real-time tracking.
- Implemented secure **JWT authentication** and automated fine calculation logic to enhance system reliability.
- Integrated mobile-vision barcode scanning, replacing hardware scanners and saving **Rs. 4,000** in infrastructure costs.
- *Tech Stack: Flutter, Python, Flask, SQLite, REST APIs, System Design*

Achievements

- **Winner, MariTHON (National Hackathon):** Led team to build a commercialized SOF event extraction tool using **Gen AI**.