

Prerit Arya

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PROFILE

B.Tech CSE student (KIIT, CGPA 8.85) with backend development and applied-algorithms experience, building API-driven services and solving large-scale routing/scheduling problems across embedded, cloud, and web platforms.

TECHNICAL SKILLS

- **Languages:** Python, Java, C, SQL
- **Backend & APIs:** Flask, REST API design & integration, Firebase, multi-threaded/headless services
- **Data Structures & Algorithms:** Graph algorithms (A* pathfinding, Dijkstra with bitmask state), greedy & DP optimization, collision/constraint checking at scale
- **Systems & Networking:** Raspberry Pi 4, SSH
- **Cloud & Tools:** Git, GitHub, Google Cloud (GKE, BigQuery, Vertex AI, Cloud Run, Terraform), Oracle Cloud Infrastructure, Jupyter, Overleaf/LaTeX

INTERNSHIPS

Application Architect Apprentice

2026 – Present

DBS Technology Services India Pvt. Ltd., Hyderabad

Group Technology & Operations

- Selected through KIIT's Training & Placement drive for a one-year apprenticeship under DBS's Group Technology & Operations division, with eligibility for the SEED full-time programme on completion.
- Undergoing structured training in enterprise application architecture practices ahead of on-site deployment.

Software Development Intern

Jul 2025 – Sep 2025

Sopra Steria India, Noida

Remote

- Reduced article processing time by ~60% across 100+ test articles by architecting a multi-stage NLP summarization pipeline (URL ingestion → scraping → LLM inference) alongside a Senior Technical Lead.
- Achieved zero regression across three structured review cycles by adopting industry-standard documentation, error-handling, and logging practices.
- Translated stakeholder requirements into clean, object-oriented Python modules with clear separation of ingestion, processing, and persistence layers.

PROJECTS

Driver Drowsiness Detection System

[GitHub](#)

Python, Raspberry Pi 4, OpenCV, dlib, Flask

Outcome: Real-time embedded alert pipeline (camera → facial-landmark detection → EAR computation → alert) running headless over SSH, with mesh-networked alert relay across multiple vehicle nodes.

Smart News Summarizer

[GitHub](#)

Python, Streamlit, Firebase, Gemini API

Outcome: AI-powered summarization service tested across 100+ articles, with Firebase-backed auth and persistence behind a Streamlit interface.

CERTIFICATIONS & ACHIEVEMENTS

- **Goldman Sachs India Hackathon 2026 – CS Track:** Solved a multi-agent drone-delivery routing problem with dynamic no-fly zones using A* pathfinding and bitmask Dijkstra (Top 14%, #2167 of 16,000+).
- **IBM Data Science Professional Certificate** – Coursera (12-course program). [View Certificate](#)
- **Google Cloud Skills Boost – Arcade (2025):** 125+ skill badges and 438+ hands-on labs across GKE, BigQuery, Vertex AI, Terraform, and Cloud Run. [View Profile](#)
- **Oracle Cloud Infrastructure 2025 – AI Foundations Associate** – Oracle. [View Certificate](#)
- **AI & ML Workshop** – IIT Delhi, Rendezvous. [View Certificate](#)

EDUCATION

B.Tech, Computer Science and Engineering

2023 – 2027

Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar

CGPA: 8.85

CBSE Class XII

2023

R.R.K Sr. Sec. School

89%

ADDITIONAL

Languages: Hindi (Native), English (Fluent), German (Certified)

Interests: Singing, Sketching