



# Bharath CD

Full-stack developer and AI/ML enthusiast

## 2x Hackthon Winner

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## PROFESSIONAL SUMMARY

Full-stack developer and AI/ML enthusiast with experience building scalable cloud applications using Google Cloud, Next.js, Firebase, and Python. Winner of the Google Gen AI Exchange Hackathon (1st place among 270,000+ developers; ₹2,00,000 prize) for developing a Generative AI-powered career advisory platform. Also secured 1st place at Inferentia 2.0 Hackathon. Skilled in Generative AI systems, IoT integration, ML workflows, cloud deployments, and end-to-end system development, with a strong ability to rapidly prototype innovative solutions.

## EDUCATION

2024 – 2028  
Bengaluru **B.Tech in Computer Science and Engineering** PES University, Ring Road Campus, Bengaluru CGPA: 7.6

Tumkur **Completed Classes 6–10 after clearing national-level entrance exam** Jawahar Navodaya Vidyalaya (JNV), Tumkur

**Rank: 3145**

KCET

## TECHNICAL SKILLS

### Programming

C  
C++  
Python  
JavaScript  
IVerilog

### Cloud & DevOps

Google Cloud Platform (Vertex AI, BigQuery ML, Earth Engine, Cloud Functions, Firebase, Cloud Storage)  
CI/CD basics

### Other

REST APIs  
Authentication (Firebase Auth)

### Web Development

React.js  
Next.js  
Express.js  
Node.js

### AI/ML

scikit-learn  
ML model building  
Google Vision API  
Vertex AI pipelines  
Gemini APIs

### Databases

MongoDB  
Firebase Firestore  
Firebase Realtime Database

### IoT

Raspberry Pi  
ESP32  
MQTT Protocol

## LANGUAGES

English

Kannada

Hindi

## ACHIEVEMENTS

**1st Place – Inferentia 2.0 Hackathon (PES University)** Led team to build an AI solution within 24 hours; won 1st place at state-level hackathon. Awarded ₹35,000 for technical innovation and problem impact.

**1st Place – Google Gen AI Exchange Hackathon (Google Cloud × Hack2Skill)**

- Secured 1st place among 270,000+ registered developers and thousands of teams nationwide.
- Advanced through multiple competitive stages: Top 100 → Top 10 → Overall Winners.
- Developed "CareerLens" – a Generative AI platform for Personalized Career and Skill Advisory using Google Cloud GenAI technologies.
- Awarded ₹2,00,000 cash prize for innovation, technical excellence, and real-world impact.

## PROJECTS

**AgriSense – AI-Powered Smart Agriculture Platform** Developed an IoT and AI-based platform for real-time monitoring of soil moisture, temperature, crop health, and environmental conditions. Implemented disease detection, irrigation automation, and price forecasting using ML and cloud services. Tech: Python (Flask), React.js, TypeScript, scikit-learn, GCP (BigQuery ML, Vision API, Earth Engine, Firebase), Raspberry Pi, ESP32, MQTT

GitHub: <https://github.com/BharathPESU/hackthon1.git>

**CareerLens – Personalized AI Career & Skills Advisor**

Built an AI-driven career guidance platform shortlisted among Top 100 teams from 90,000+ participants at the Google Cloud Gen AI Exchange Hackathon.

Implemented resume scoring, job matching, skill-gap analysis, and personalized paths using Vertex AI and Gemini.

Tech: Next.js, React.js, Node.js, Firebase, Firestore, Vertex AI, Gemini APIs, Public APIs, Firebase Auth

GitHub: <https://github.com/BharathPESU/CareerLens.git>

**PeerLink – Offline Peer-to-Peer File Sharing & Messaging App**

Developed an Android application that enables fully offline peer-to-peer file sharing and messaging over local Wi-Fi without internet access. Implemented automatic peer discovery using UDP broadcast and TCP-based file transfer with a multi-peer chunk download strategy for faster transfers. Designed a scalable architecture using Kotlin, Android ViewModel, Coroutines, and LiveData to manage networking, file storage, and real-time chat communication.

Tech Stack: Kotlin, Android SDK, TCP/UDP Sockets, Kotlin Coroutines, SharedFlow, ViewModel, RecyclerView, Material UI

GitHub: <https://github.com/BharathPESU/PeerLink.git>

## COMPETITIVE PROGRAMMING

**LeetCode** <https://leetcode.com/23bharathcd>

<https://www.hackerrank.com/PES1UG24CS562>