Krishna P Tambatkar

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Profile

Final year B.Tech student in Electronics and Computer Engineering with strong skills in Python, C++, data structures, and algorithms. Experienced in application development and cloud computing. Skilled in designing high-performance scalable systems and applying analytical techniques to develop efficient solutions. Committed to continuous learning and the rapid adoption of emerging technologies.

Education

Amrita Vishwa Vidyapeetham — Bengaluru, India
B.Tech in Electronics and Computer Engineering (CGPA: 7.12/10.0) — *2022 – 2026*

BASE PU College — Bengaluru, India
11th & 12th, PCMC (Percentage: 79%) — *2020 – 2022*

Clarence Public School — Bengaluru, India
10th (Percentage: 83%) — *2019 – 2020*

Skills

Technical Skills: C++, Python, Object-Oriented Programming (OOP), Data Structures and Algorithms (DSA), Machine Learning, AWS Cloud Computing, API Development, High-Performance Computing
Soft Skills: Leadership, Team-management, Action-oriented, Versatility, Communication

Projects

Blockchain-based Safety Alert System for Internet of Vehicles (IoV) — Decentralized System
- Built a decentralized real-time risk management system to broadcast critical events (drowsy, drunk, rash driving, accidents) using Ethereum smart contracts and a React Native (Expo) infotainment app.
- Integrated a blockchain relay server with AWS Lambda for scalable cloud-based event pipelines, ensuring secure, low-latency, and reliable communication.

Menstrual Phase-Specific Dietary Guidance — SPIN 2025
- Developed a system providing customized dietary suggestions by predicting menstrual phases with **99.39% precision** using XGBoost and SMOTE.
- Published and presented research in the 12th International Conference SPIN 2025.

AI-Native Wireless PHY with Neural Receivers — NVIDIA GPU Platform
- Building neural receiver and autoencoder-based Physical Layer (PHY) models using PyTorch and Sionna on NVIDIA GPUs, targeting robust detection over AWGN and fading wireless channels.
- Benchmarked end-to-end learnable transceivers against classical PHY baselines using Bit Error Rate (BER) vs SNR analysis.

Leadership & Extracurricular Activities

Team Lead, AMAL Club (Amrita Management and Leadership) — 2024 – 2025
Organized Large-scale Mock Parliament
- Led an **8+ member team** to organize a Mock Parliament with **40+ participants**, ensuring 100% on-time delivery of logistics and task execution.

Sponsorship Team, College Fest — 2023
Business Outreach and Negotiation
- Successfully secured sponsorship deals by reaching out to **15+ local businesses**, presenting festival brochures and managing stakeholder engagement.