

BODAPATI BHARAT CHANDRA

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PROFILE

Backend-focused CSE student building ML-powered systems, autonomous platforms, and production-style REST APIs through real-world engineering projects. Experienced in FastAPI backends, real-time telemetry systems, applied machine learning, and scalable backend architecture.

EDUCATION

GITAM University, Hyderabad 2027
B.Tech in Computer Science and Engineering CGPA: 7.57

EXPERIENCE

Backend Developer — Tender & Vendor Compliance Platform - BHEL HYD (offline) 2026

- Built a local-first procurement compliance platform for automated tender evaluation and vendor compliance tracking
- Developed FastAPI backend with JWT authentication, SQLite workflows, PDF/OCR document processing, and audit logging
- Built React-based review dashboard with automated Excel compliance reporting and manual override workflows

AI/ML Intern — Elevate Labs (Online) Apr 2026 – May 15, 2026

- Worked on applied machine learning tasks involving preprocessing, model training, and evaluation
- Built Python-based ML workflows and explored deployment-oriented backend integrations

PROJECTS

CAN-7USAT Ground Control Station (*Python, FastAPI, WebSocket, PostgreSQL, React*) 2026

- Built real-time telemetry backend for the **IN-SPACE Model Rocketry Competition 2026** decoding binary flight packets over a 900 MHz XBee link with sub-5 ms latency
- Implemented Kalman-filter-based sensor fusion and a 6-state flight pipeline with live WebSocket telemetry broadcasting

AUVBrain – Autonomous Underwater Vehicle Control System (*Python, FastAPI, ROS2, Docker*) 2026

- Developed low-latency autonomous control stack using deterministic observe → decide → act architecture
- Integrated offline LLM-based decision engine with rules-based fallback and structured telemetry logging

Explainable AI System for Diabetic Ulcer Detection (*PyTorch, FastAPI, Docker, MLflow*) 2025–2026

- Initially developed during the AI Day Hackathon and later extended into a production-oriented explainable AI healthcare system
- Trained CNN-based medical image classification models with Grad-CAM and SHAP explainability integration
- Built FastAPI inference backend with Docker deployment, JWT authentication, RBAC, and MLflow tracking

Fake News Analyzer (*Chrome Extension + FastAPI Backend*) 2025–2026

- Originated during the HackXplore Hackathon and evolved into a scalable misinformation analysis platform
- Trained Logistic Regression model on 10,000+ samples achieving 90% validation accuracy using TF-IDF vectorisation
- Engineered FastAPI backend with LLM-assisted reasoning and confidence-based verdict generation

Backend Developer — Vijetha Digital, Hyderabad 2024 – Present

- Developing and maintaining production backend systems for a real-world e-commerce platform serving business operations
- Built 15+ REST API endpoints with JWT authentication, Razorpay payment integration, and multi-role access control
- Designed relational database workflows supporting order lifecycle management, authentication, and transaction processing

LEADERSHIP

Co-Lead, Easify Pooling Service — Venture Development Club 2024

- Led a 3-member team developing a mobility solution addressing transport accessibility gaps
- Conducted 130+ user surveys and presented technical architecture to academic review panel

TECHNICAL SKILLS

Languages	Python, JavaScript, SQL, Java, C
Frameworks	FastAPI, React, ROS2
Databases	PostgreSQL, MongoDB (Basic)
ML / AI	PyTorch, scikit-learn, Grad-CAM, SHAP, MLflow
Tools	Git, GitHub, Docker
Concepts	REST APIs, JWT Authentication, Real-time Telemetry, Kalman Filtering, Autonomous Systems, TF-IDF, Supervised Learning