


<div>Adwyte Karandikar – AI/ML • Backend Dev • Databases • Cloud</div>		
<div>Summary</div> <p>Computer Science Engineering undergraduate with hands-on experience designing AI/ML and backend systems, from LLM-based debate platforms to industrial digital-twin solutions. Skilled in Python, C++, cloud deployment, and database management, with a track record of delivering production-ready, scalable service applications.</p>	<div>Contact</div> <p>+91 9975292262 adwyte28@gmail.com github.com/adwyte linkedin.com/in/adwyte Portfolio: adwyte.vercel.app</p>	
<div>Professional Experience</div> <div>Software Engineering Intern - HyperMinds Tech (Mar 2025 – Sep 2025):</div> <ul style="list-style-type: none">Engineered Python/FastAPI backend APIs on AWS EC2 to support SaaS ETL integrations, improving reliability and simplifying user onboarding.Set up Jira project creation and real-time issue tracking for ETL failures, reducing manual ticket handling, and enabling faster response to data pipeline errors.Implemented dynamic function & field mapping, using EC2-deployed PostgreSQL automated with Redis and Celery.	<div>Education</div> <p>Vishwakarma Institute of Technology BTech in Computer Science and Engineering (AI-ML) (2023-2027) CGPA: 8.96</p> <p>Jnana Prabodhini Prashala (2014-2021) CBSE: 97.8%</p>	
<div>Projects</div> <div>Digital Twin Platform for Industrial Automation in MSME Sector (Industry Project - Yuga Globe Tech Pvt. Ltd.)</div> <ul style="list-style-type: none">Designed a retrofittable digital twin system for legacy industrial lathe machines, using NodeMCU, IIoT sensors, MQTT, and MongoDB Atlas for scalable real-time sensor data (vibration, power, temperature and RPM).Streamed machine metrics to backend ML models for failure prediction, and integrated Unity 3D, Flask-based web dashboards for live analytics and industrial simulation.Simulated a 20 machine MSME workshop, to enable predictive maintenance and reduce downtime. <div>LLM-Driven Real-Time Debate Arena (Industry Project – Passion Infotech)</div> <ul style="list-style-type: none">Built a full-stack real-time debate platform with live speech-to-text, NLP parsing, and LLM-based argument scoring for logic, evidence, bias and validity.Delivered a scalable FastAPI + PostgreSQL backend and React frontend, supporting real-time human-vs-human and human-vs-AI debates. <div>Legacy Code Migration Engine (Procedural C to OOP Python)</div> <ul style="list-style-type: none">Developed a parser tool to convert procedural C to object-oriented Python, generating call graphs with NetworkX and exposing a C++ backend via pybind11.Configured automatic AST analysis and testing for accurate code migration. <div>Secure Remote Media Server with Automated Indexing</div> <ul style="list-style-type: none">Deployed a headless Ubuntu server with SSH access, and Plex/Jellyfin integration for multi-device streaming.Added script-based media indexing and secure TCP port forwarding, to provide a remotely accessible, private media service.	<div>Certifications</div> <p>Fundamentals of Deep Learning NVIDIA</p> <p>Supervised Machine Learning: Regression and Classification Stanford, DeepLearning.ai</p> <div>Achievements</div> <p>Winner – IEEE AI Agents Hackathon 2025 (out of 70+ teams)</p> <p>2nd Runner Up - Uptiq x IEEE AI Innovators' Hackathon 2025 (10K cash prize + industry experience)</p> <p>Finalist - National Odoo x NMIT Hackathon 2025 (Placed top 75 out of 3K+ teams)</p> <p>Runner Up – MCOE HackForge 2025</p> <div>Skills</div> <p>Languages: Python, C++, Go, SQL</p> <p>Frameworks: FastAPI, SQLAlchemy, CrewAI, LangChain, React, Next.js</p> <p>Libraries: Pandas, TensorFlow, PyTorch, Pydantic, OpenCV</p> <p>Databases/Cloud: PostgreSQL, Neo4j, MongoDB Atlas, AWS EC2</p> <p>Tools/Infra: Docker, Git, MQTT, Redis, Celery, Jira</p>	
<div>Research Publications (Scopus-Indexed)</div> <ul style="list-style-type: none">A Comparative Analysis of Machine Learning Algorithms for Weather Prediction in India – 7th ICCPCT 2024 (IEEE Digital Xplore) (2 research citations)Smart Retail Shelf for Inventory Management and Consumer Analytics – Hinweis RTET 2025 (Grenze International Journal of Engineering and Technology)	<div>Extra-curriculars</div> <p>Technical Lead (Cloud Computing): Microsoft Student Learn Club, VIT</p> <p>AR Head – SIG RealitySpectra</p> <p>Photography Coordinator – VClick (Official Photography Team - VIT)</p> <p>Content Head - TEDxVITPune</p>	