

Aditya Dutt Pandey

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SKILLS SUMMARY

AI / Agentic Systems	: LangGraph, LangChain, Multi-Agent Orchestration, Speculative RAG, LLM Fine-tuning, Vector Search
Edge & Embedded AI	: Raspberry Pi, ESP32, On-device Inference Optimization, Embedded Systems Integration
Languages	: Python, TypeScript, JavaScript, Go, Rust, SQL, Bash/Shell Scripting
Backend	: Node.js, Express.js, FastAPI, REST, GraphQL, gRPC, WebSockets, JWT/OAuth, API Gateway Design, Rate Limiting, Nginx
Databases & Distributed Systems	: PostgreSQL, MongoDB, Redis, Prisma ORM, Kafka, CQRS, Query Optimization
Infrastructure	: Docker, Kubernetes, CI/CD (Jenkins, GitHub Actions), Terraform, GitOps, Auto-scaling, Prometheus/Grafana
Soft Skills	: Leadership, Problem-solving, Team Collaboration, Adaptability, Continuous Learning

EXPERIENCE

Co-Founder & Chief Technical Officer (CTO) tunyt Link	Dec 2025 – Present
- Grew tunyt to 10,000+ users in the first month with zero marketing spend, driven by direct relationship-based distribution through the Indian college and hackathon ecosystem. - Own the platform's technical build end-to-end — scaled weekly traffic from ~69K to a peak of 485K requests while cutting response time 110ms→59ms and lifting Apdex 0.55→0.89.	
Research Intern Lovely Professional University Certificate	Jun 2026 – Jul 2026
Contributed to 2 filed patents, hardware-anchored cryptographic attestation for AI agent decisions, and a cognitive-emotional adaptive intervention system, plus 2 research papers, through experimentation and technical documentation.	
Software Development Intern Pokus Certificate	Jan 2026 – Feb 2026
- Shipped backend pipelines for an AI agent autonomously executing real-world tasks (bookings, food orders, calls) across backend services and mobile, at production scale. - Owned the CI/CD pipeline for a Flutter-based mobile app's production deployment, and worked on optimizing the AI agent's learning loop for faster iteration.	
Open Source Mentor GSOC Certificate	Jun 2025 – Oct 2025
Recognized for exceptional mentorship and community impact across the program after guiding contributors on production backend code, distributed systems, and system design trade-offs..	

PROJECTS

VERIS - Decentralized Visual Authenticity Protocol GitHub	Sep 2026
Built a Web3 device that cryptographically signs photos at capture via TPM-rooted hardware signing, anchoring authenticity through Groth16 ZK proofs, ERC-1155 NFTs on Ethereum, and Filecoin/IPFS - sub-second verification from capture to on-chain validation.	
Speculative RAG - Voice-Enabled Indic RAG System GitHub	Aug 2026
- Built a sub-200ms voice QA system across 4 Indic languages (Sarvam STT → BM25/Qdrant retrieval → extractive answering) with an async recovery chain for groundedness and multi-passage synthesis; deployed live on a free-tier 512MB host at ~25ms retrieval latency.. - Designed an adaptive context-learning framework personalizing responses to behavioral and environmental patterns.	
Sukku - Smart User-Centric Kinetic Companion Robot GitHub	Apr 2025
- Built an on-device kinetic companion robot with multimodal emotion recognition running locally on dual Raspberry Pi 5 units - no cloud dependency for perception or response. - Designed an adaptive context-learning framework personalizing responses to behavioral and environmental patterns.	
Other Projects Load_Balancer (auto-scaling load balancer) · cqrs (event-driven CQRS platform, 50K+ events/sec) · go-grpc-micro (gRPC microservices) · OsU (from-scratch OS in C) · betting-dapp (Solana dApp, Rust/Anchor) · CareerForge AI (multi-agent career platform) · diffusion_llm (discrete diffusion text generation) · mew (agentic collaboration workspace) · sfu-go (real-time media SFU) · Cag-model (cache-augmented generation model) · kaleido-metaverse (metaverse/3D web experience) · x-tension (browser extension for workflow automation)	

ACHIEVEMENTS

Top 14 Globally, Google Solution Challenge 2026, from 85,000+ registered teams.	Jul 2026
1st Place, Student Incubation Category, InnoTek - LPU 9th Innovation Expo.	Apr 2026
1st Place, Brand Wars, Xpecto'26 – IIT Mandi	Mar 2026
Winner, Syntechs 2026 (hosted by CodeChef and Kreo).	Jan 2026
Won 11+ hackathons (IIT BHU, IIT Mandi, LPU Innotech); judged 4+ hackathons and delivered guest lectures.	

Training & Certification

Agile Mastery Bootcamp: from Classroom to Industry Lovely Professional University 	Jun 2026 – Jul 2026
Applied Scrum practices, product vision definition, backlog prioritization, and Trello-based board management to a real-world software project through collaborative team workflows.	

EDUCATION

Lovely Professional University	Punjab, India
Bachelor of Technology in Computer Science and Engineering; CGPA – 8.39	Aug 2024 – Present
G.D. Goenka, Varanasi	Uttar Pradesh, India
Intermediate – 73%	Jun 2023 – Mar 2024
Tulsi Vidya Niketan, Varanasi	Uttar Pradesh, India
Matriculation – 88%	Jun 2021 – Apr 2022