Yash Kumar Gupta

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Education

Kalinga Institute of Industrial Technology　　　　　　　　　　　　　　　　2023 - 2027
Bachelor of Technology in Computer Science Engineering: CGPA: 8.98 / 10.00　　　*Bhubaneshwar, Odisha*
- **Relevant Coursework:** Data Structures in C++, Object Oriented Programming, in Java, Database Management Systems

Indian Institute of Technology Madras　　　　　　　　　　　　　　　　　2023 - 2028
Bachelor of Science in Data Science: CGPA: 8.05 / 10.00　　　　　　　　　*Chennai, Tamil Nadu*

Experience

Microsoft Learn Student Ambassador　　　　　　　　　　　　　　　Jan 2024 – Present
Team Member
- Led and collaborated with a 10-member AI/ML team to mentor 15+ recruits, deliver 5+ projects, and organize workshops for 350+ participants—boosting team on boarding efficiency by 40%.

Kodewreck KIIT　　　　　　　　　　　　　　　　　　　　　　Jan 2025 – Present
Competitive Programmer
- Achieved 2 Stars on CodeChef with a rating exceeding 1476.
- Solved 300+ LeetCode problems, strengthening algorithmic thinking and problem-solving speed.

Projects

Spenzify | *Spring Boot, Kafka, Docker, Microservices*　　　　　　　　　Jan 2025 – Apr 2025
- Architected and deployed a distributed microservices backend comprising 4 containerized services (Auth, User, Expense, AI), leveraging Spring Boot, Docker, and Kafka to enable event-driven communication and DB-per-service isolation. Achieved 99.9% uptime under real-world load scenarios.
- Built and integrated an AI-driven expense parsing engine with LangChain and Gemini, automating financial data entry from natural language queries with 90%+ precision in merchant, amount, and currency detection.
- Optimized system for production environments with modular APIs, and external client support, enabling seamless integration with web or mobile frontends.

Eventify | *Go Fiber, React Native, PostgreSQL*　　　　　　　　　　　Feb 2025 – May 2025
- Engineered a full-stack event management system used by 100+ university members, automating planning workflows and reducing manual coordination time by 70% through digital ticketing and self-service registrations.
- Designed and scaled secure REST APIs in Go with PostgreSQL backend, supporting 50+ events and 1,000+ transactions per semester with JWT-authenticated access and schema-level data integrity.
- Developed a real-time cross-platform attendance tracker using React Native and QR integration, improving participation visibility by over 50% and fully eliminating legacy paper-based workflows.

AI Market Research Generator | *Python, CrewAI, Multi-Agent*　　　　　　Dec 2024 – Jan 2025
- Engineered a multi-agent research system using Python and CrewAI, coordinating 4 autonomous roles (Industry Researcher, Competitor Analyst, Use Case Strategist, Proposal Writer) to complete 15+ interlinked tasks, cutting report delivery time from 3 weeks to under 30 minutes.
- Integrated Serper Search API with Gemini 1.5 Flash in a structured task pipeline, generating 10-section research documents containing 10+ domain-specific AI/ML use cases with quantified business impact scenarios.
- Developed an automated publishing engine with HTML/PDF output formats—achieving 95%+ success rate and reducing manual edits by 80%.

Technical Skills

Languages: Python, Java, C, C++, Go
Technologies:CrewAI, Spring Boot, RESTful APIs, Kafka, Redis, Docker
Concepts: Operating System, Artificial Intelligence, Neural Networks, LLMs, API, Generative AI, Object Oriented Programming, Natural Language Processing, Microservices Architecture, Agentic Artificial Intelligence.