

Chigurupati Nandan Sai

Adm. No. 25JE0883 | +91 82973 59931 | nandansaichigurupati08@gmail.com | linkedin.com/in/nandan-sai-chigurupati
github.com/Nandansai08 | nandan.engineer

EDUCATION

Indian Institute of Technology (ISM) Dhanbad

B.Tech in Computer Science and Engineering · CGPA: 8.10/10.00 (Sem 1: 8.00, Sem 2: 8.20)

Aug 2025 – May 2029

Dhanbad, Jharkhand

- **Relevant Coursework:** Data Structures & Algorithms (C++), Probability & Statistics in CS (Python), Introduction to CS II (C++), Linear Algebra with Computational Applications (Python)

TECHNICAL SKILLS

- **Languages:** C, C++, Python, JavaScript (ES6+), HTML5, CSS3
- **Backend & Databases:** Node.js, Express.js, MongoDB, REST APIs, JWT Authentication
- **Cloud & AI:** Microsoft Azure, Azure Document Intelligence, Azure App Service, Azure Static Web Apps
- **Developer Tools:** Git, GitHub Actions (CI/CD), VS Code, Postman, Linux CLI, npm
- **Core Concepts:** Data Structures & Algorithms, OOP, OS Fundamentals, Cryptography (SHA-256), RESTful Architecture, Document Intelligence / AI Extraction

PROJECTS

TenderWise AI | *Node.js, Azure Document Intelligence, Azure App Service, GitHub Actions* [Live](#) · [GitHub](#)

- Built a production AI system that ingests tender documents (PDF, DOCX, images) via Azure Document Intelligence, automatically extracts and normalizes eligibility criteria, and evaluates each bidder criterion-by-criterion — replacing a fully manual government procurement review workflow.
- Designed a three-verdict evaluation engine (Eligible / Not Eligible / Needs Manual Review) with evidence-linked reasoning and reviewer override support, ensuring auditability for government procurement standards.
- Built a structured export pipeline delivering JSON, CSV, and HTML audit reports with full event-trail logging for compliance and transparency.
- Configured GitHub Actions CI/CD for automated deployment to Azure App Service (Central India region), including a test suite and a REQUIREMENTS_COMPLIANCE.md demonstrating production engineering rigor.

Data Lens AI | *Node.js, Azure Document Intelligence, JavaScript* [GitHub](#) · *Hackathon: AI Meets Data — From Noise to Insight*

- Built a hackathon prototype that converts raw CSV, JSON, unstructured logs, plain text, PDFs, and scanned images into a structured analysis board, eliminating manual data-cleaning steps.
- Integrated Azure Document Intelligence (prebuilt-layout model) for OCR-based extraction from PDFs and images; routed API keys server-side to prevent client-side key exposure.
- Implemented a local analysis engine that profiles fields, computes missing-value rates, infers data types, detects numeric outliers, and measures category concentration to produce plain-English insight cards and recommended next actions.
- Enriched records with heuristic sentiment scoring, urgency classification, and entity extraction to surface actionable signals from unstructured text without relying on an external NLP API.

NovaSync | *Node.js, Express.js, MongoDB, JWT, Greedy Algorithm* [Live](#) · [GitHub](#)

- Engineered a full-stack group expense-splitting platform supporting multi-user groups with secure JWT stateless authentication and equal / exact / percentage / recurring split modes; deployed on Render with a MongoDB Atlas backend.
- Implemented a greedy graph debt-simplification algorithm that reduces up to $N \times (N - 1)$ possible transfers between N users down to exactly $N - 1$ settlements, minimizing transaction count to its mathematical lower bound.
- Designed RESTful API endpoints covering groups, expenses, and user management with middleware-level authorization guards; built a dynamic analytics dashboard with per-category spending breakdowns and monthly trend visualizations.

PersonalAI | *TypeScript, Node.js, MCP, Ollama, Multi-provider LLM* [GitHub](#)

- Building a local-first AI assistant, in the spirit of Jarvis, that runs entirely on the user's own machine and switches between Ollama, Anthropic, OpenAI, Groq, and Gemini via a single environment variable.
- Implemented semantic memory, an extensible plugin system, and Model Context Protocol (MCP) support, plus a web UI, all launchable from a single npx command.
- Maintaining the project as an open-source repository with a public issue tracker and good-first-issue labels to onboard external contributors.

Whetstone | *Python, LLM Agents, Multi-model Verification, CLI* [GitHub](#)

- Building an AI code-builder agent that turns a natural-language request into working code: it clarifies the spec, plans subtasks, and generates code with a worker LLM.
- Designed a verification loop that checks generated code against executable tests and a cross-model judge, automatically refining on failure and persisting what worked for future runs.

ACHIEVEMENTS

- **JEE Advanced 2025:** All India Rank 3,651 (top ~2% of ~180,000 qualified candidates)
- **JEE Main 2025:** All India Rank 3,956 (top 0.4% of ~1.1 million candidates)
- **Academic:** CGPA 8.10/10.00 after Semester 2 at IIT (ISM) Dhanbad (Sem 1: 8.00 → Sem 2: 8.20), Batch 2025–29
- **Hackathons:** Competed in 2 AI/data hackathons; shipped live, deployed prototypes for both (Azure App Service + Render)

EXTRACURRICULAR ACTIVITIES

- **Volunteer, Agent Slam** — AI/ML-themed competitive event organized by the CSE Department, IIT (ISM) Dhanbad (Mar–Apr 2026); coordinated event logistics and participant onboarding.
- **Volunteer, Srijan** — IIT (ISM)'s flagship national cultural festival (Jan–Feb 2026); managed event coordination, logistics, and guest hospitality across a large-scale multi-day programme.
- **Sports:** Badminton, Chess, Cricket, Table Tennis (active participant in institute-level events)