

# ADITYA SINGH

Full-Stack Developer | AI/Automation Engineer  
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## PROFESSIONAL SUMMARY

Full-stack developer and AI/automation engineer with a track record of building production-grade LLM-powered pipelines, agentic workflows, and web products. Shipped automation systems handling lead generation, call quality monitoring, and invoice processing end-to-end. Built a medical triage assistant that scored 93.93% at Google Prompt Wars 2025. AWS Certified Cloud Practitioner. Pursuing an MCA specializing in AI/ML. Equally comfortable owning a product from architecture through deployment as shipping within a team.

## TECHNICAL SKILLS

Languages and Computer Science: Python, TypeScript, JavaScript, C++, Java, Data Structures and Algorithms, Object-Oriented Programming, Multithreading

AI and Machine Learning: LLM Integration (Claude, GPT-4o, Gemini), Prompt Engineering, Natural Language Processing, Sentiment Analysis, Whisper Speech-to-Text, Retrieval-Augmented Generation (RAG), Multi-Agent Systems

Automation: n8n, Webhook Design, Workflow Orchestration, API Integration, Voice and AI Agent Pipelines

Web and Frameworks: Next.js, React, FastAPI, WebSockets, REST APIs, Tailwind CSS, HTML5, CSS3

Data: MySQL, MongoDB, Google Sheets API, PDF.co, Structured Data Extraction

Cloud and DevOps: AWS (EC2, S3, IAM), Google Cloud Run, Docker, GitHub Actions, Vercel

## EXPERIENCE

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| <b>Automation Expert</b>   Autobae (Startup)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | April 2026 - June 2026  |
| <i>Remote   autobae.in   Voice Agents, AI Agents and n8n Automation</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                         |
| <ul style="list-style-type: none"><li>Designed and deployed production n8n automation workflows for voice agent and AI agent pipelines, integrating external APIs, webhooks, and LLM calls into reliable, unattended processes.</li><li>Built end-to-end automation sequences covering inbound lead handling, outbound outreach triggers, and CRM data enrichment, reducing manual intervention across client workflows.</li><li>Implemented error-handling branches, retry logic, and structured logging to ensure every pipeline resolved to a defined state without human oversight.</li><li>Collaborated closely with the product team to translate business requirements into n8n workflow architecture, iterating rapidly on client feedback.</li></ul> |                         |
| <b>Full-Stack Developer</b>   Aeternik Pvt Ltd, Raipur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | March 2025 - March 2026 |
| <ul style="list-style-type: none"><li>Shipped full-stack features across client projects using React, Tailwind, FastAPI, and REST APIs, taking ownership from design through QA over a full year of employment.</li><li>Developed hands-on expertise in AI-assisted development (vibe-coding), integrating LLM APIs into product features and automating repetitive workflows to accelerate delivery.</li><li>Participated in code reviews, implemented responsive UI components, and integrated third-party APIs within an agile team environment.</li></ul>                                                                                                                                                                                                 |                         |

## SELECTED PROJECTS

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| <b>Medical Triage Assistant</b>                                                                                                                                                                                                                                                                                                                     | 2026 |
| <i>Gemini 2.0 Flash, Google Cloud Run, Progressive Web App, Search Grounding</i>                                                                                                                                                                                                                                                                    |      |
| <ul style="list-style-type: none"><li>Scored 93.93% at Google Prompt Wars 2025. Built an AI-powered triage assistant using ML-based classification.</li><li>Added Emergency Mode UI, PWA support, Search Grounding, and an expanded automated test suite, enabling offline-capable, production-grade usage in low-connectivity scenarios.</li></ul> |      |
| <b>Call Quality Monitoring and Alert System</b>                                                                                                                                                                                                                                                                                                     | 2025 |
| <i>n8n, Whisper STT, Sentiment Analysis / NLP, SMTP</i>                                                                                                                                                                                                                                                                                             |      |

- Designed and deployed an n8n pipeline that transcribes recorded customer calls via Whisper STT, eliminating 100% of manual transcription effort.
- Integrated NLP-based sentiment scoring and configurable threshold logic to rate agent behavior and auto-flag rude or unprofessional interactions.
- Automated real-time email alerts to managers with transcription summary, sentiment score, and call metadata, with retry logic and error handling for unattended reliability.

### Automated Lead Generation and Enrichment Pipeline

2025

*n8n, Google Maps API, Google Sheets, Deduplication Logic*

- Designed and deployed a multi-branch n8n workflow that sources businesses by city via Google Maps API, enriches contact records, and writes them to Google Sheets, fully automating outbound lead sourcing for a UK client pipeline.
- Implemented deduplication logic checking new leads against existing records before writing, preventing repeat outreach across runs.
- Built dedicated health-check, new-leads, and no-new-leads branches so the pipeline runs fully unattended and always resolves to a defined state.

### AI-Based Invoice Processing System (MCA Final Year Project)

2025 - 2026

*n8n, PDF.co, Groq LLM, Google Sheets, SMTP*

- Built a format-agnostic n8n pipeline ingesting PDF and image invoices, converting PDFs via PDF.co, and extracting structured data with an LLM (Groq), eliminating manual data entry.
- Implemented a validation gate before any write to Sheets, plus dual success/error notification paths (SMTP and dashboard callback), ensuring only clean data reaches the destination.
- Designed PDF and image ingestion to converge on a single extraction path, keeping all downstream logic format-independent and maintenance-free.

### House Edge - 3D Blackjack (blackjackv5.vercel.app)

2026

*React Three Fiber, Framer Motion, Vercel*

- Designed and shipped a cinematic single-player 3D blackjack game featuring a six-deck shoe, chip-based betting, and a custom dealer-persona system with a low-poly 3D character and full cinematic intro sequence.
- Built a custom camera rig for consistent mobile/desktop framing, optimized card texture resolution, and tuned Framer Motion transitions for a premium feel; deployed on Vercel.

## EDUCATION

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### MCA - AI/ML Specialisation | MATS University

2025 - 2027 (Expected)

*Raipur, CG*

- Coursework: Machine Learning, Artificial Intelligence, Advanced Java, Web Technologies, DBMS, Software Engineering.

### BCA - Bachelor of Computer Applications | St. Vincent Pallotti College

Graduated 2025

*Raipur, CG*

- Coursework: DBMS, Web Technologies, OOP with Java, Advanced Excel.

## CERTIFICATIONS AND RECOGNITION

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- AWS Certified Cloud Practitioner - Amazon Web Services
- IBM SkillsBuild - RAG and Multi-Agent Systems
- Google Prompt Wars 2025 - 93.93% score, Medical Triage Track

## LANGUAGES

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English (Fluent), Hindi (Native)