Abhay Kumar

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Summary

Data Science graduate with practical experience building machine learning models, adaptive learning systems, automation workflows, and AI-powered web applications. Skilled in Python, data processing, graph databases, and engineering fast end-to-end prototypes using AI-assisted development tools such as Gemini, Codex, Antigravity, Flowise, Replit, and other vibe-coding environments. I've worked across ML, analytics, n8n automations, and full-stack AI features, and I'm currently developing Gyan AI, a SaaS platform for personalized, AI-driven learning gap detection. I thrive in creative, fast-iteration environments where AI is used as a core development partner, and I'm seeking an early engineering role where I can own features, experiment rapidly, and help build AI-native products that scale.

Technical Skills

- **Languages & Frameworks:** Python (Pandas, NumPy, Scikit-learn), basic TensorFlow/PyTorch, familiarity with FastAPI and React concepts for full-stack prototyping.
- **Datastores & Tools:** SQL, Neo4j (Cypher), Git, GitHub, Jupyter, VS Code, Replit.
- **AI / ML:** Prompt engineering, RAG basics, model evaluation, time-series forecasting, graph embeddings, NLP generative workflows.
- **AI-assisted coding tools:** Gemini AI Studio, Antigravity, OpenAI Codex, GitHub Copilot, VS Code AI extensions, Lovable, Flowise, Replit, ChatGPT/Claude, N8n.
- **Business & Visualisation:** Data visualization (Matplotlib, Seaborn, Excel), Google Workflow, Stakeholder Communication, Dealing & expansion strategy planning.

Current Work — AI Product Development

Gyan AI — Adaptive Learning SaaS   *Nov 2025 – Present*
AI Webapp Developer (Vibe Coding)

- Developing **Gyan AI**, a SaaS platform that helps schools and students identify learning gaps and receive personalized AI-generated guidance.
- Using **Gemini LLM**, **Google AI Studio**, **Antigravity**, Supabase and vibe-coding tools to rapidly prototype features and iterate at high velocity.
- Building adaptive learning flows that diagnose weaknesses and generate tailored explanations, exercises, and skill-repair sequences.
- Engineering end-to-end components including UI, backend logic, prompt pipelines, and real-time AI response systems.
- Designing a scalable multi-student architecture that supports progress tracking, dynamic difficulty adjustment, and automated content generation.

Professional Experience

Click Automate   *Sep. 2025 – Nov. 2025*
Ai Engineer & Partner, Digital Marketing Agency

- Built advanced n8n automations to streamline marketing workflows, integrate third-party tools, and deliver hands-free operational systems for clients.
- Developed and shipped websites and AI-powered features using modern "vibe coding" tools (AI-assisted code generation, rapid prototyping frameworks, no-code/low-code deployments).
- Acted as a partner responsible for bringing in new clients, pitching automation solutions, and closing deals that aligned with agency offerings.
- Collaborated directly with clients to understand business needs and translate them into scalable automation and AI-driven solutions.
- Contributed to strategic decisions, service design, and growth initiatives for the agency.

Vyas Edification (Bharat Brainz)   *Jan 2025 – May 2025*
Admission Partner & Data Analyst, EdTech Startup

- Analyzed student application and engagement metrics to identify high-potential leads and improve admission conversion strategies.
- Conducted product demos and onboarding for AI-driven educational platforms, translating technical features for non-technical audiences.
- Used feedback and analytics to refine learning content and outreach, driving higher engagement.
- Collaborated with product and academic teams to align admissions strategy with growth goals.

BudBlooms Consultancy Pvt. Ltd.   *May 2021 – Jul 2021*
Data Analyst Intern, Crypto Startup

- Monitored and analyzed real-time cryptocurrency market data to generate actionable insights.
- Developed predictive models using time-series techniques and machine learning for short-term trend forecasting.
- Cleaned and processed large datasets from exchange APIs using Python (Pandas, NumPy).
- Built interactive visualizations to communicate trends to stakeholders.

Amar Traders   *Apr 2020 – Mar 2021*
Chief Operations & Strategy Officer

- Directed operations and market strategy, achieving a 30% increase in profitability during pandemic disruptions.
- Analysed sales data to optimize resource allocation and improve sales strategies.
- Managed vendor negotiations and supply chain logistics to maintain business continuity.

Self-Employed(Part Time)   *Jan 2018 – Dec 2024*
Insurance Advisor (PoSP)

- Advised 200+ clients on tailored insurance solutions; improved retention via data-informed recommendations. Maintained structured client datasets and renewal workflows to streamline follow-ups.

Projects & Selected Work

BS Thesis — Knowledge Graphs for Biomedical Research *Jan 2024 – Apr 2024*

- Designed and implemented a knowledge-graph system integrating biomedical datasets to surface relationships between genes, proteins, and diseases.
- Used Neo4j and Cypher to construct and visualize graphs; built graph-embedding-based ML models to predict novel associations.
- Compared graph-based approaches to relational baselines; improved query efficiency and interpretability for researchers.

ML / Analytics Prototypes

- Built time-series forecasting models and dashboards for crypto market monitoring (BudBlooms).
- Rapid prototypes using AI-assisted coding tools to test LLM prompt flows and simple RAG setups (Flowise, Replit, Lovable).

Education

Indian Institute of Science Education and Research (IISER) Bhopal *2019 – 2024*
B.S., Data Science & Engineering

Leadership & Activities

- **ENTHUZIA — IISER Bhopal Cultural Fest**: Convenor & Team Lead (2022–2024) — led 80+ volunteers; managed budgeting, logistics, and events.
- **Armageddon Gaming Tournament**: Tournament Director (2024) — end-to-end organization and execution.
- **Research Symposium (DSE IISER Bhopal)**: Team Member (2023).

Languages

English (Fluent) • Hindi (Native) • Punjabi (Native)