ADITYA PRASAD PANIGRAHI

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Gmail | GitHub | Atom

RESUME SUMMARY

Aspiring AI developer and entrepreneur with hands-on experience in full-stack development and machine learning applications. Founder of Atom Tech, focusing on building efficient AI systems and hybrid local-cloud architectures. Passionate about optimizing large language models and developing practical AI products that solve real-world problems through efficient technologies and the first product is a chat interface called Atom Ctrl which has extended search as its core feature.

SKILLS AND ABILITIES

- **AI & Machine Learning:** GenAI, Retrieval Augmented Generation (RAG), LLM Optimization, Mixture of Experts (MoE); PyTorch, Model Quantization, CUDA Basic
- **Programming & Development:** Python, C, JavaScript, TypeScript; React.js, Next.js, Node.js, Convex
- **Other Skills:** Problem Solving, Research & Experimentation, System Architecture Design, Startup Mindset

EXPERIENCES

Atom Technologies

Founder & CEO | 2026 - Present

- Founded an AI-focused startup developing efficient language models and intelligent AI applications.
- Designed the Gödel Architecture, a hybrid local-cloud AI system combining compact local models with cloud-based specialist tools.
- Built AtomCtrl, a voice-first AI assistant integrating search capabilities directly into the chat interface. • Conducted research on synthetic data scaling and hybrid LLM architectures to improve training efficiency and model performance.
- Led the development of practical AI products emphasizing efficiency, modular design, and real-world usability

ACADEMIC PROJECTS

- **Gödel 1.6 - Hybrid Local-Cloud LLM Architecture**

  Designed a four-layer architecture including Tokenizer, Core, Router, and Doors to optimize task routing between local and cloud systems.

  Implemented efficient routing logic ensuring that only complex tasks require cloud processing.

- **Synthetic Data Scaling for LLM Efficiency**

  Built a preprocessing pipeline using LLaMA-3 to convert raw web data into structured Q&A training datasets. Generated reusable datasets to improve model training efficiency and downstream learning signals.

- **Handwritten Digit Recognition System**

  Developed a deep learning model trained on the MNIST dataset, achieving 93.89% test accuracy. Implemented image preprocessing techniques including resizing, normalization, and inversion.

- **Natural Language Processing - Bigram Language Model**

  Built a tutorial decoding a complex andrej karpathy vid.

- **Frontend Web Application Suite**

  Developed multiple web applications including To-Do App, Expense Tracker, social networking site MVP and Amazon Clone using HTML, CSS, and JavaScript also

  Multiple production ready sites atom, atomctrl and owlstanding

EDUCATIONAL QUALIFICATION

- **Bachelor of Technology (B.Tech) - Internet of Things (IoT)**
  KL University | 2026 – Present| SGPA: 8.5

INTERESTS AND ACTIVITIES

- Played cricket and badminton and drawing