

# Vikrant Pradhan

+91 94455 35612 | Bengaluru, KA, India | [pradhan.vikrant.97@gmail.com](mailto:pradhan.vikrant.97@gmail.com)  
[vikrantpradhan.dev](https://vikrantpradhan.dev) | [github.com/vikrant0017](https://github.com/vikrant0017) | [linkedin.com/in/vikrantpradhan](https://linkedin.com/in/vikrantpradhan)

## SUMMARY

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Backend-focused Full Stack Developer with 2+ years of experience and a Master's in Computer Science (ML specialization) from Georgia Tech. Skilled in Python, Node.js, and scalable system design. Currently deepening expertise in AI and LLMs to build production-ready, intelligent systems. Eager to contribute to teams developing practical, AI-driven applications.

## EDUCATION

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**Georgia Institute of Technology** January 2022 — December 2024  
*Bachelor's of Science, Computer Science and Mathematics*

**Aarupadai Veedu Institute of Technology** August 2015 — May 2019  
*Bachelor's of Science, Computer Science and Mathematics*

## EXPERIENCE

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**Software Engineer** September 2019 — December 2021  
Enerman Technologies Pvt Ltd *Bengaluru, KA, India*

- Reduced database load by implementing an aggregate module that efficiently consolidated sensor data into periodic summaries.
- Improved FTP data processing speed by replacing cron job checks with real-time file monitoring, resulting in quicker database updates after file uploads.
- Improved query performance by integrating Redis Streams for caching, significantly alleviating pressure on the main SQL database.
- Enhanced data integrity by designing and implementing a real-time sensor data filter service, effectively eliminating erroneous values before database storage.

## PROJECTS

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**AI Launcher** [github.com/vikrant0017/ai-launcher](https://github.com/vikrant0017/ai-launcher)  
Cross-platform desktop app built with Electron for fast local AI and RAG-based queries.

- Developed the frontend with Electron, React, and TypeScript, and the backend with FastAPI.
- Implemented a complete local RAG pipeline using Ollama for offline AI responses.
- Built a file sync service to automatically index and update documents in the retriever.
- Added a notes capture feature for quick Markdown-based note-taking.
- Designed keyboard-centric navigation with global and in-app shortcuts for seamless use.

**Smart Bookmarks** [github.com/vikrant0017/smart-bookmark-ext](https://github.com/vikrant0017/smart-bookmark-ext)  
A Chrome extension that helps you save and organize bookmarks with AI-powered summaries.

- Built a Chrome extension using Vite, React, and TypeScript.
- Enabled quick bookmarking with AI-generated summaries and tags.
- Added bookmark management features — search, categorize, and filter.
- Supported user-provided API keys, including local Ollama integration for AI features.

## SKILLS

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- **Languages.:** Python, TypeScript, Javascript
- **Frameworks.:** FastAPI, ReactJS, Langchain, ElectronJS
- **Tools.:** Docker, Git, Github
- **Databases.:** MySQL, MongoDB, Redis
- **Concepts.:** REST APIs, Data Structures & Algorithms, Machine Learning