

Soham Maity

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github.com/spreadsheets600 · linkedin.com/in/spreadsheets600 · spreadsheets600.buzz

Education

B.Tech in Computer Science

2024 – 2028

Bengal Institute of Technology

B.S. in Data Science and Programming

2024 – 2028

Indian Institute of Technology, Madras

Technical Skills

Backend: Django, Flask, FastAPI, Node.js

Frontend: Vue.js, Astro, Tailwind CSS, HTMX

Tools & Deployment: Docker, Git, Linux, Cloudflare

Languages: Python, JavaScript, SQL, C, Bash, HTML5, CSS3

AI / Machine Learning: PyTorch, TensorFlow, Scikit-Learn, OpenCV

Projects

Novatra

Python, Django, PostgreSQL, HTMX

- Designed and deployed a full-stack SaaS quiz platform for students, covering user authentication, quiz creation/attempt flows, and performance dashboards.
- Built the data model and analytics layer in PostgreSQL to track and visualize student performance over time.
- Handled end-to-end deployment, taking the product from local development to a publicly accessible, production-hosted application.

MindCache

FastAPI, Ollama, FAISS, BM25, Vector Search, Browser Extension

- Built a local-first, privacy-preserving AI search tool that indexes personal notes and files using semantic embeddings, letting users retrieve information via natural-language queries without sending data to any external service.
- Implemented a hybrid retrieval pipeline combining FAISS-based vector search with BM25 keyword ranking, and a RAG layer on top of locally-run Ollama models to generate grounded, context-aware answers.
- Extracted and indexed metadata across file types, and shipped a companion browser extension for capture and quick-search access.

CityPulse

Vue.js, Flask, PostgreSQL, PostGIS, Image Processing, GIS

- Built an AI + GIS platform combining geospatial data (PostGIS) with computer-vision-based image processing to surface actionable civic/city-scale insights, aimed at solving a real government-facing problem.
- Developed the frontend in Vue.js and the backend in Flask, integrating map-based visualizations with processed image and location data.

Repo Recommendation Engine

Python, GitHub API, Similarity Ranking

- Built a GitHub repository recommendation system entirely without third-party AI APIs, using custom similarity/ranking logic over repo metadata (topics, languages, stars, activity) pulled via the GitHub API.
- Designed the scoring and ranking pipeline from scratch in Python, demonstrating recommendation-system fundamentals independent of pre-built AI services.