

Aniket Bisht

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Education

SRM Institute of Science and Technology, Chennai

2024 – Present

B.Tech – Computer Science (Cloud Computing)

CGPA: 8.25

Technical Skills

Languages: Python, JavaScript, TypeScript

Frontend: React.js, Next.js, HTML, CSS

Backend: FastAPI, Node.js, Express.js

Databases: MongoDB

Cloud & Tools: AWS, Vercel, REST APIs

AI & Systems: LLMs, Prompt Engineering, Web Scraping, Multiprocessing, IPC

Data & ML (Coursework): Unsupervised Learning, Recommendation Systems, Reinforcement Learning

Projects

AI-Powered Product Recommendation Engine

Next.js, React, FastAPI, Python, AWS, Web Scraping, LLMs

- Built a full-stack recommendation engine to evaluate Amazon and Flipkart products using structured data.
- Implemented a scraping and normalization pipeline extracting 50+ product attributes across sources.
- Designed an LLM-based analysis workflow using prompt engineering to generate unbiased purchase verdicts.
- Deployed scalable backend services on AWS using an API-first architecture.

Reddit-Based Stock Recommendation System

Python, Node.js, React, MongoDB, AWS, APIs, Multiprocessing, IPC

- Developed a data-driven stock recommendation system by analyzing finance-related subreddit data.
- Integrated Gemini and Yahoo Finance APIs for market data enrichment.
- Optimized processing using multiprocessing and IPC, reducing runtime from 600s to 200s (3×).
- Implemented IPC-based caching to prevent API rate-limit conflicts.

Wrapify (Spotify Wrapped Reimagined)

React.js, TypeScript, Node.js, Express.js, Spotify Web API, OAuth 2.0, AWS, Vercel

- Built a Spotify Wrapped-style web application with interactive listening insights.
- Integrated Spotify Web API with OAuth 2.0 for secure user authentication.
- Developed backend services and deployed via Vercel and AWS.

SpinBot

React (Vite), FastAPI, MongoDB, Celery, GCP

- Built an open-source workflow automation platform for automated MOM generation and customizable pipelines.
- Designed and implemented secure REST APIs using JWT authentication and role-based access control.
- Integrated background job processing with Celery for asynchronous task execution and system scalability.
- Developed 50+ third-party integrations and 100+ reusable workflow templates to support diverse automation use cases.
- Deployed production-ready services on Google Cloud Platform (GCP) with a privacy-first, scalable, and developer-friendly API architecture.

Internships / Experience

Research Intern

Dec 2024 – Present

ANRF – Prime Minister Early Career Research Grant (PMECRG), Machine Vision Intelligence Lab, SRM IST, Chennai, India (Hybrid)

- Working on a SERB-ANRF funded research project in the Machine Vision Intelligence Lab, SRM IST.
- Developing a YOLOv8-based wearable navigation system for visually impaired users.
- Implementing monocular speed estimation and risk-based decision logic for real-time obstacle assessment.
- Building context-aware alert mechanisms to reduce cognitive load and improve navigation safety in unstructured environments.
- Optimizing on-device inference using TensorFlow Lite for real-time performance.
- Preparing a research paper based on project outcomes (in progress).

Certifications

- Advanced Data Analytics — Google
- Data Analysis with Python — IBM
- Oracle Database Foundations — Oracle DSO
- Full Stack Software Developer - IBM

Achievements & Activities

- Achieved 3× performance improvement using multiprocessing and IPC.
- Participated in multiple hackathons, building prototype solutions under tight deadlines.
- Active member of NextTechLab, SRMIST — collaborated on technical projects and workshops.