Satvik Sangamkar

Backend Software Engineer
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https://satviksangamkar11.github.io/PORTFOLIO/

Education

Bachelor of Technology (BTech) in Computer Engineering
Vishwakarma Institute of Information Technology, Pune | CGPA: 8.66 | 2024

Professional Experience

Backend Software Engineer Intern
SHMTH Research LLP, Pune | May 2025 - September 2025

Contributed to Blade Terminal (Trader OS) backend infrastructure for real-time financial data processing. Implemented JWT authentication and Role-Based Access Control (RBAC) while engineering optimized data filtering functions for live orderbook processing. Utilized Git/GitHub for collaborative development and version control throughout the project lifecycle.

Technical Skills

Programming Languages: Python, SQL
Backend Framework: FastAPI
Databases: Redis, MongoDB, MySQL, PostgreSQL
Authentication & Security: JWT, OAuth 2.0 (Google, Discord), Argon2, BCrypt, CORS
AI/ML Technologies: CrewAI, Google Gemini AI, Scikit-learn, Pandas, NumPy
Web Scraping: Botasaurus, BeautifulSoup, Selenium
Development Tools: Git, GitHub, Docker
Version Control: Git, GitHub

Projects

Authentication Service
GitHub: github.com/satviksangamkar11/Authentication

Built multi-provider authentication service supporting Email/Password, Google OAuth, and Discord OAuth with comprehensive JWT token management including version control for immediate security invalidation. Developed OTP email verification system and secure password reset functionality while creating Redis-based session management with TTL mechanisms for rate limiting. Technologies used include FastAPI, Redis, JWT, OAuth 2.0, Argon2, BCrypt, and SMTP integration.

CrimeScout AI
GitHub: github.com/satviksangamkar11/CrimeScout-AI

Developed multi-agent crime news scraper and analyzer using CrewAI framework with automated 12-hour scraping cycles and quality validation agents. Implemented Telegram bot integration for automated news posting and notifications while creating anomaly detection system using Google Gemini AI for content analysis. The project utilized Python, CrewAI, Google Gemini AI, MongoDB, Telegram Bot API, and Botasaurus.

Realtime Amazon Product Sentiment Analysis
GitHub: github.com/satviksangamkar11/Realtime-Amazon-Product-Sentiment-Analysis

Built real-time sentiment analysis tool for Amazon product reviews classification with automated web scraping system for review data collection. Developed machine learning pipeline using Scikit-learn for sentiment prediction and data analysis. Technologies implemented include Python, Scikit-learn, Pandas, BeautifulSoup, and various machine learning algorithms.

Blade News Center
GitHub: github.com/satviksangamkar11/Blade-News-Center
Created automated news aggregation platform from multiple sources with intelligent deduplication algorithms to prevent content redundancy. Built comprehensive scheduling system for automated news collection and processing while ensuring efficient content management. The project utilized Python, web scraping technologies, automated scheduling systems, content processing algorithms, and data deduplication techniques.