YASHASWA VARSHNEY

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EXPERIENCE

HyperBots, Bengaluru, IN: Software Development Engineer — Aug 2024 – Present
- Developed ERP connectors for AI-driven accounts payable workflows, improving data exchange.
- Implemented real-time notifications (email, WhatsApp, web), reducing turnaround time.

Finzome, Mumbai, IN: Software Developer Intern — Jun 2024 – Aug 2024
- Built a backtesting framework for stocks; reduced runtime using Cython.
- Optimized trading strategies via parameter tuning.
- Designed backend and integrated payments for LMS (90%+ success rate).

AR Quants, Mumbai, IN: Software Developer Intern — Feb 2023 – Aug 2023
- Built statistical tools for transaction analysis.
- Designed InfluxDB-based timeseriesDB storage.
- Created custom Pine Script indicators for market pattern visualization.

PROJECTS

Multi-Database Query Orchestrator [LINK]
LangGraph, MCP, SQL, MongoDB

- Unified natural language interface for SQL, NoSQL, and Drive-based queries.
- Features layered agent system: Planner, Executor, and Error Handler.
- Supports schema-aware, context-sensitive query generation.

Sector Rotation Graph [LINK]
Open-source Bloomberg RRG clone

- Visualized sector performance using Yahoo Finance data.
- Streamlit-based GUI with benchmarking against indices.

FilthyFilter [LINK]
OpenCV, Tesseract OCR, Computer Vision

- Extracts high-quality wallpapers from anime movies using multi-metric visual analysis.
- Prioritizes frames based on sharpness, color vibrancy, composition, and character detection.
- Filters out frames with text overlays using OCR; supports full customization and automation.

TECHNICAL SKILLS

Tools & Frameworks: REST API, PyTorch, LangGraph, LangChain, RAG, Vector DBs, MCP
Platforms: Pine Script, GitHub, DB Ops, AWS
Languages: Python, Golang (learning), SQL, Bash
Domains: AI Agents, Financial Systems, Automation
Soft Skills: Analytical Thinking, Design Thinking, Planning

EDUCATION

B.Tech in Computer Science Engineering — Sep 2020 – Sep 2024
KIIT University, Bhubaneswar, IN — 8.30 CGPA
School of Computer Science
Relevant coursework: Financial Economics using Data Analytics

ACHIEVEMENTS

- Contributed to Flowise Python connectors (AI agent infra).
- Blog: "Nadaraya-Watson Indicator" [12.5K+ views].
- Speaker: UN Workshop on Power BI.
- ArtStation: *Utopia Concept Art Winner*, Spring 2020.

INTERESTS

Blogging (Finance, AI), Himalayan trekking (3 peaks), swimming, and hiking.