

Darshit Sengra

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TECHNICAL SKILLS

- **Languages:** Python, Java, JavaScript, TypeScript, GO, NEXT.js
- **Frontend:** HTML, CSS, React, MERN
- **Technologies:** Firebase, REST APIs, FASTAPI, TensorFlow, PyTorch, Scikit-learn, NumPy, Pandas, Docker
- **Databases:** MongoDB, SQL
- **Tools:** Git, Postman, Figma, Blender

EDUCATION

- **Medhavi Skills University**
 - *B.Tech, Computer Science Engineering with Integrated AI/ML* *Expected Graduation: July 2028*
- **Coursework:** Data Structures, Algorithms, Web Development, Database Management, AI/ML Foundations

PROJECTS

- **Multi-agent RAG Model:**
 - Built a **FastAPI**-based FAQ system with Google Generative AI for automated question answering.
 - Developed Multi-Agent Architecture with document management endpoints for query processing and response generation.
- **OpenEnv: Causal SRE Intelligence Platform:**
 - Built a production-grade **RL simulation platform** for autonomous SRE incident response using **FastAPI**, **React**, and **Docker**, modeling complex microservice architectures with realistic anomaly injection.
 - Implemented a hybrid ML pipeline: **XGBoost** (485-feature root cause classification), **Isolation Forest** (anomaly detection), and **LSTM Autoencoder** (temporal drift), with **SHAP** explainability.
 - Designed a causal reasoning engine using the **PC algorithm** for DAG discovery and a **SEM** counterfactual engine for safe “what-if” system intervention simulation.
- **Bitcoin Next-Hour Price Range Predictor:**
 - Built a **GBM** model forecasting the 95% BTC/USDT confidence interval via Monte Carlo (10k paths, Student-*t* log-returns), achieving **95.28% coverage** on a 30-day backtest.
 - Benchmarked three volatility models (Simple σ , **EWM**, **HAR-RV**); optimized hyperparameters (lookback=500, $\alpha=0.055$) using the **Winkler Score** (mean=1682.94).
 - Live **Binance API** data feed, **SQLite** prediction persistence, and interactive **Streamlit + Plotly** dashboard.

ACCOMPLISHMENTS AND CERTIFICATIONS

- **Hackathon Winner:** 1st place, Polaris & Google for Developers Hackathon (Feb 2025) for an innovative women’s safety application.
- **WorldQuant International Quant Championship 2026:** Ranked in the Top 20% of teams globally in Stage 1 (team “Cornflakes”).
- **AWS Cloud Practitioner Essentials:** Completed AWS’s foundational cloud computing course covering core services, security, architecture, and pricing.
- **Competitive Programming:** Solved 450+ algorithmic problems on LeetCode.

PROFESSIONAL EXPERIENCE

- **Liquid Galaxy** Jan 2025 – May 2025
 - *Open Source Contributor*
 - **Tasks:** Produced 3 Wikis on Liquid Galaxy technologies, delivered project presentations, and developed 2 mobile applications in **Dart**.
- **Revrag.ai** Nov 2025 – May 2026
 - *Forward Deployed Engineer (FDE) Intern*
 - **Tasks:** Conducted manual UI testing and validation of onboarding and payment flows, ensuring accurate system prompts and developing efficient prompts, resulting in improved process efficiency and validation accuracy for user journeys.
 - Prepared structured transcripts and datasets for evaluating AI voice agents, enhancing testing reliability.
 - Designed database schemas, optimized queries, and implemented Alembic migrations to enhance backend performance, while developing efficient backend APIs and WebSocket services.
 - Developed animated UI components and enhanced frontend interactions to improve user experience.