

Rishi Guptha Mankala

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WORK EXPERIENCE

- Nevara AI | AI/ML Engineering Intern** Jun 2025 – Aug 2025
- Developed an AI sales-call auditing MVP using Next.js/TypeScript, Supabase, OpenAI, and Deepgram for a coach overseeing 100+ reps.
 - Automated notes-to-report in 90–140 seconds, reducing per-rep review time by ~75%, and achieved a satisfaction rating of 3.75/5 in a pilot with 3 reps across 3 calls.
 - Owned CI/CD and serverless delivery with GitHub Actions to Vercel and FastAPI on AWS Lambda; tuned memory and reserved/provisioned concurrency to stabilize p95 latency at 30s (transcribe), 30–50s (notes), and 60–90s (report).
 - Shipped timestamp-synced media player, transcript, and notes (HLS.js, SSE, React Query). Added click-to-seek and auto-highlighting; improved audit navigation throughput by 2x and reduced context switching.
 - Authored Next.js APIs (/transcription, /ai-notes, /gong-scrape, /fathom) with SSE progress, strict XML validation, and versioned Supabase storage via Prisma (Auth/Postgres/Storage).
 - Integrated Gong and Fathom and led AI-report prompt/context engineering with a <128K token cap to keep costs <\$0.75 per call and reduce retries by ~30–50%.
- Stony Brook University | Data Science Researcher** Jan 2025 – May 2025
- Built Python–SQL pipelines for S&P 500 time-series data and trained LSTM, CNN, and SVM models using TensorFlow/PyTorch, improving model accuracy by 20% and risk scoring by 15% through Bayesian inference and backtesting.
 - Delivered dashboards (Tableau, Python) integrating predictive outputs and risk metrics, enabling 30% faster portfolio decisions and surfacing volatility trends via SVM optimization and feature extraction.
- Kimberly Clark | Data Engineering Intern** Jan 2023 – Jul 2023
- Automated metadata tagging and validation in Collibra using Python/PostgreSQL workflows, earning 7 certifications and boosting governance team productivity by 25% while reducing manual effort by 30%.
 - Migrated 10K+ assets into Collibra via Excel-based ETL with 100% data integrity, resolved 15% pipeline inconsistencies, and built Power BI/Tableau dashboards to visualize KPIs and reduce reporting errors by 18%.
 - Designed and deployed 5+ advanced Collibra workflows to support real-time data quality and lineage validation, enabling faster stakeholder reporting and improved oversight across governance domains.
- Matchday AI | Software Engineer Intern** Jan 2022 – Dec 2022
- Built computer-vision pipelines (OpenCV) for soccer analytics, training deep learning to detect head/neck, ball positions, and player movement from broadcast footage, achieving 90%+ event tracking accuracy.
 - Applied Pose/Heatmap Transformation to convert dynamic camera feeds into 2D field projections, powering spatial analytics for tactical coaching insights.
 - Developed a full-stack annotation platform (Flask, JS, SQLite), reducing manual labeling time by 40% and enabling deployment of data-driven dashboards for 6+ ISL teams via Star Sports.

PROJECTS

- NutriSmart: RAG-Driven Insights for Fitness and Nutrition | Academic**
- Delivered 30% faster fitness insights and 40% lower latency by deploying a RAG service (Sentence Transformers + FAISS) containerized with Docker on AWS EC2/FastAPI, indexing 1.2K+ papers.
- NYC Taxi Insights | Academic**
- Improved fare-duration accuracy 30% and query performance 35% by engineering a GCP ETL for 10M+ rides, modeling star-schema marts, and training LightGBM with BERT-derived features for dynamic pricing.
- Sales Insights Dashboard | Individual**
- Raised sales-forecast accuracy 30% and cut prediction turnaround 15% by building a Power BI hub over CRM/ERP using SQL + DAX, enabling faster pipeline planning and territory targeting.
- Spotify Playlist Analytics | Individual**
- Enabled daily KPIs by designing a serverless ETL (AWS Lambda/Glue/S3) for 18K+ playlist logs and optimizing Athena SQL to reduce processing time 40%, informing genre strategy and retention.

EDUCATION

- Stony Brook University | Master of Science, Data Science**

Stony Brook, NY

SKILLS

- Programming Languages:** Python, Java, SQL, TypeScript/JavaScript, R
- Data Science & Machine Learning:** PyTorch, TensorFlow, scikit-learn, Pandas, NumPy, NLP, ASR (Deepgram), Large Language Models (OpenAI API), Prompt & Context Engineering, Statistical Analysis/Modeling, Deep Learning
- Cloud Platforms:** AWS (Lambda, S3, EC2, Glue, Redshift), GCP (BigQuery, Cloud Storage, Vertex AI), Vercel, Supabase (Auth/Postgres/Storage)
- Data Platforms & Pipelines:** Snowflake, Apache Spark, Airflow (Astronomer), dbt, Data Modeling, PostgreSQL
- Backend & Web:** Next.js (React), FastAPI, RESTful APIs
- Data Visualization:** Tableau, Power BI, Looker Studio, AWS QuickSight, Matplotlib
- DevOps & Tools:** Docker, Linux, Git/GitHub, GitHub Actions (CI/CD), Microsoft Excel, Google Sheets, Collibra