



# Abhijit Rayarao

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## EDUCATION

### International Institute of Information Technology Hyderabad

*M.Sc in Data Science (GPA: 8.4/10)*

July 2024 – Present

Hyderabad, Telangana

### Vignana Bharathi Institute of Technology

*B.Tech in Computer Science and Business Systems (GPA: 7.28/10)*

June 2020 – June 2024

Hyderabad, Telangana

## EXPERIENCE

### Homeground Analytics

*Software Engineer Intern*

October 2025 – Present

Hyderabad, India

- Developed and maintained production-grade applications using **NestJS** and **Next.js** in a shared **monorepo** architecture.
- Built **20+ scalable REST APIs**, and server-side rendered frontend features, improving page load performance by **30–40%** and SEO metrics by **2x**.
- Containerized services using **Docker** and published images to **Docker Hub** for consistent deployments.

## PROJECTS

### QueryMaster NestJS, SvelteKit, Prisma, Docker, GCP

- Built a full-stack SQL learning platform using **NestJS** and **SvelteKit**.
- Adopted a **monorepo architecture** with shared types, schemas, and utilities.
- Used **Prisma ORM** for type-safe schema modeling, queries, and migrations.
- Integrated **Monaco Editor** to deliver interactive, LeetCode-style SQL challenges from schema design to query optimization.
- Containerized and deployed the application using **Docker**, **Docker Hub**, and **Google Cloud Run**.

### FeatureLab Python, Pandas, scikit-learn, Docker, Cloud Run

- Designed an end-to-end ML platform where users select **curated datasets** and establish baseline model performance using standard metrics (F1, RMSE, Accuracy).
- Built a sandboxed, notebook-style **feature engineering playground** allowing users to write custom transformation logic (e.g., PCA, SVD, orthogonal transforms).
- Executed user-defined feature pipelines in isolated **containerized training jobs** with strict runtime and memory limits.
- Retrained models with engineered features and provided **objective feedback** via metric deltas against baseline performance.

## SKILLS

**Languages:** Java, Python, JavaScript, TypeScript, SQL

**Frameworks & Libraries:** Spring Boot, Node.js, Express, React, Next.js, FastAPI

**Databases:** PostgreSQL, MySQL, Redis

**Developer Tools:** Docker, Git/GitHub, Google Cloud Run, Prisma, JWT

**System Design & Backend:** RESTful APIs, Microservices, Authentication, Scalability, Distributed Systems, Caching, Queues

**ML/Data Tools:** Pandas, scikit-learn