

# Sakshi Ravindra Asati

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## EDUCATION

### University of Colorado Boulder

*Master of Science in Data Science*

Boulder, CO

Aug. 2024 – May 2026

### G H Rasoni College of Engineering

*Bachelor of Engineering in Information Technology*

Nagpur, India

Aug. 2018 – May 2022

## TECHNICAL SKILLS

**Programming & Frameworks:** Python, R, SQL (PostgreSQL, MySQL), FastAPI, Streamlit

**Machine Learning & AI:** Scikit-Learn, TensorFlow, Keras, PyTorch, LLMs (LangChain, GPT-4), FAISS, NLP, Model Evaluation, Statistical Analysis & Modeling

**Data & Cloud Platforms:** AWS, GCP, Kubernetes, Airflow, Hadoop, PySpark, Docker, Jenkins, Redis, MongoDB

**Visualization & Tools:** Tableau, Power BI, Excel (Power Query, Pivot Tables), Git, Linux/Unix, Jira, Postman

## EXPERIENCE

### Programmer Analyst

*Cognizant Technology Solutions*

May 2022 – May 2024

Pune, India

- Monitored and managed ETL workflows ingesting multi-format datasets into Hadoop, using GDPR-compliant encryption to ensure security and regulatory compliance.
- Automated UAC-based pipelines with Apache Airflow, adding retry logic and SLA alerts that reduced manual intervention by 50% and improved reliability of data delivery.
- Collaborated with cross-functional teams to diagnose and resolve Spark job failures through log analysis and exception handling, increasing pipeline stability for business-critical systems.
- Built Python scripts and SQL checks to validate data flows, cutting incident response time by 15% and ensuring high data availability.
- Improved deployment reliability by contributing to CI/CD pipelines using Jenkins and Bitbucket, automating builds, validations, and releases to reduce production issues.

## PROJECTS

### Secure Medical Notes AI | *FastAPI, LangChain, GPT-4, PostgreSQL, Redis, Docker*

Aug 2025 – Nov 2025

- Built a medical documentation platform using LangChain and GPT-4 for AI-driven summarization with FAISS-powered retrieval, helping clinicians review patient notes faster and with greater accuracy.
- Developed Streamlit dashboards with authentication, role-based access, and Celery-based background processing via Redis for smooth, scalable performance.

### Support Sync – Full-Stack CRM Ticketing System | *MongoDB, Node.js, React, GCP*

Feb 2025 – Apr 2025

- Developed a real-time CRM system to centralize support requests and improve communication between customers and agents.
- Integrated an AI chatbot to automate FAQs and password resets, reducing agent workload by 30% and speeding up resolution times.

### NexChain – Supply Chain Optimization using AI | *Python, ML, XGBoost, Clustering*

Jan 2025 – May 2025

- Built ML models to tackle irregular product demand, achieving up to 97% forecasting accuracy and reducing inventory inefficiencies.
- Applied clustering to group items by demand patterns, cutting overstock risk by 20% and improving procurement decisions.

### Food Allergy Risk & Nutrition Analysis | *Python, ML, ANOVA, T-tests, Tableau*

Feb 2025 – Apr 2025

- Analyzed nutritional data of 400+ foods to identify significant differences between allergenic and non-allergenic items using t-tests and ANOVA.
- Highlighted high-risk ingredients (dairy, wheat, shellfish) with measurable correlations ( $r = 0.31$ ), informing dietary safety and labeling practices.