SAHIL RAJ

📞 +91-7023898011 ✉ sahilrajsingh2005@gmail.com in Linkedin ○ Github ⬧ Portfolio

EDUCATION

National Institute of Technology, Karnataka   2022 − 2026
Bachelors of Technology - **Mining Engineering**   *Manglore, Karnataka*

TECHNICAL SKILLS

Programming & Analytics: Python, SQL, Excel, Power BI, JAVA

Tools & Platforms: Azure Data Factory, Databricks, Azure Synapse, MLflow, ZenML, Git

PROJECTS

Production-Ready House Price Prediction (MLOps)   Jun 2025 − Jul 2025
Technologies: *ZenML, MLflow, Python, Scikit-learn, Pandas, REST API, CI/CD, Git*
- Developed a modular **MLOps pipeline** using **ZenML** for automated data ingestion, transformation, training, and deployment of a house price prediction model with **97.3% accuracy**.
- Deployed models via **REST APIs** with real-time inference support and tracked **25+ experiments** using **MLflow** for reproducibility and version control.
- Applied **Factory, Strategy, and Template design patterns** to ensure scalable, maintainable, and production-ready code.

Azure Data Engineering Pipeline   Jan 2025 − Feb 2025
Technologies: *Azure Data Factory, Azure Data Lake Gen2, Databricks,*
Azure Synapse Analytics, SQL, Power BI, Spark
- Designed a production-grade pipeline using **Medallion Architecture** (Bronze-Silver-Gold) to process **1M+ records**, reducing ingestion time by **35%** via **ADF** optimizations.
- Cleaned and transformed large datasets using **Databricks PySpark**, then loaded into **Azure Synapse** and exposed via external tables for analytics and reporting.
- Created dynamic **Power BI dashboards** from Synapse views, enabling **live KPI insights** across 3+ business units.

EXPERIENCE

Lyik (Startup)   Dec 2024 − Jan 2025
Business Analyst Intern
- Automated **web scraping workflows** using **Python** and **Beautiful Soup**, reducing data collection time by **40%** across key market sources.
- Performed detailed **competitor analysis** and created strategic benchmarks, identifying gaps in **market positioning** and **customer targeting**.
- Designed and deployed **5 SQL-based dashboards** in **PowerBI**, improving stakeholder reporting and increasing **user engagement** by **15%**.

CCL (Coal India) − Ranchi   Apr 2024 − May 2024
Management Trainee
- Analyzed **production workflows** and resolved process bottlenecks, increasing **operational throughput** by **15%**.
- Mapped underground operations via **Excel**-based time-motion studies, improving ore extraction efficiency by **8%** and reducing idle time by **12%**.
- Conducted **cost-benefit analysis** and assisted with budgeting strategies, contributing to a **10% reduction** in non-operational costs while maintaining **safety compliance**.

EXTRACURRICULAR

- **TechSaksham Internship (Microsoft & SAP CSR):** Completed certified AI internship focused on real-world applications and problem-solving using **Python** and AI tools. *[Certificate Link]*

- **Leadership Roles − SAE HR Coordinator & NITK Basketball Team:** Led HR operations for a 30+ member SAE team, increasing retention by **20%**. Represented NITK in intercollegiate basketball, demonstrating **teamwork** and **discipline**.