

NIKITA AGARWAL

Data Engineer | Portfolio - <https://nikitaagarwal.web.app/>

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☆ AI - Portfolio - <https://ai-portfolio-f8767.web.app/>

SUMMARY

Software Engineer with 2+ years of experience in Data Engineering, Cloud Analytics, and Healthcare Data Workflows. Specialized in developing scalable ETL/ELT pipelines using Apache Airflow, DBT, and Snowflake. Proven expertise in transforming healthcare data into actionable insights while maintaining HIPAA compliance. Strong collaborator achieving 25-30% performance improvements and 99.9% pipeline reliability.

EXPERIENCE

Software Engineer

TrieDatum

📅 03/2023 - Present 📍 Remote

Healthcare data analytics firm specializing in EHR, claims, and clinical data solutions

- Led end-to-end data engineering efforts across analytics platforms, progressing from production operations to senior development roles. Designed and maintained a scalable ETL/ELT pipeline processing over 10 million records daily across 500+ healthcare providers. Developed robust data quality and observability frameworks, ensuring 99.9% platform uptime. Successfully migrated enterprise DBT infrastructure to the cloud, increasing deployment efficiency by 50%. Partnered cross-functionally with privacy, compliance, and clinical teams to align with HIPAA and HITRUST standards, delivering high-impact insights to support value-based care initiatives.

Intern

Antares Tech

📅 02/2022 - 08/2022 📍 Remote

Technology solutions firm focused on innovative web applications

- Developed advanced Picture-in-Picture video functionality using React and JavaScript APIs, enhancing user experience by 35%. Collaborated with frontend and UX teams to optimize video playback performance and ensure cross-browser compatibility across multiple devices.

Intern

Indian Institute of Technology

📅 05/2018 - 07/2018 📍 IIT, Guwahati

Premier technical research institute

- Implemented statistical forecasting models using Python for time series analysis and predictive modelling. Developed performance-optimized C components for data transformation and conducted rigorous model validation techniques.

EDUCATION

MCA

Tezpur University

📅 07/2019 - 06/2022

GPA
8.2 / 10

BCA

Gauhati University

📅 08/2016 - 06/2019

GPA
8.3 / 10

CERTIFICATIONS

Snowflake - The Complete Masterclass

Udemy

Data Analysis | SQL, Tableau, Power BI & Excel | Real Projects

Udemy

SKILLS

Python	MySQL	SNOWFLAKE	DBT
Apache Airflow		AWS S3	Git
			GitHub
CI/CD Pipelines		PowerBI	Tableau
Pandas	Jira	Visual Studio Code	
Shell Scripting			

PROJECTS

Personal Portfolio Website – AI-Assisted Web App

Built with Lovable AI and deployed via Firebase Hosting

- Designed and deployed a fully responsive portfolio website using Lovable.ai, leveraging AI-assisted UI generation to streamline layout and styling in React.
- Deployed the application on Firebase Hosting, enabling fast global content delivery with continuous deployment from version control.
- Integrated modular sections (About, Skills, Projects, Certifications, Contact) with smooth scrolling, animated transitions, and custom branding for a professional personal showcase.
- Optimized for SEO and accessibility, with semantic HTML, structured metadata, and social media previews.
- Technologies used: React, Tailwind CSS, Firebase Hosting, Lovable AI, Git.

Healthcare Data Integration Platform

Technologies: DBT, Snowflake, Python, MWAA (Apache Airflow), Healthcare APIs

- Integrated and processed 10M+ daily records** from EHR, claims, and laboratory datasets, enabling 25% faster clinical reporting through optimized ETL pipelines and advanced query tuning
- Implemented automated data quality frameworks** achieving 99.5% SLA compliance and reducing anomaly detection time by 40% across all healthcare data workflows
- Developed scalable provider performance models** serving 500+ healthcare providers while maintaining zero HIPAA/HITRUST compliance violations
- Optimized Snowflake data warehouse performance** through advanced query tuning and resource management, reducing compute costs by 20% while improving response times
- Improved the performance and reliability** of enterprise level data processing systems to support critical healthcare reporting.

PROJECTS

Enterprise DBT Cloud Migration

Technologies: DBT Core, DBT Cloud, CI/CD, GitHub Actions, Git

- Led migration of 200+ DBT models from Core to Cloud
 - Established automated CI/CD pipelines, reducing deployment errors by 50%
 - Configured role-based access controls and environment isolation for enterprise governance
 - Achieved 95% team adoption rate through comprehensive training and documentation
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Production Healthcare Infrastructure Monitoring

Technologies: Apache Airflow, Arena Platform, JIRA, Linux, EMR

- Monitored 50+ data pipelines across customer environments, ensuring 99.9% uptime
- Managed infrastructure optimization including EMR clusters and memory utilization
- Implemented proactive issue detection preventing 15+ potential system failures
- Achieved 4-hour average incident resolution time through systematic troubleshooting
- Enhanced overall system efficiency for mission-critical healthcare reporting