

SUSITRA GNANASAMBHANDAM

Healthcare Data Analyst / Business Intelligence (BI) Analyst / Clinical Informatics

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SUMMARY

Healthcare Data Analyst specializing in EHR workflows, clinical research data, and HIPAA-compliant analytics. Strong background in SQL, Power BI, and BI reporting, with graduate training in Biomedical Data Science and research experience at Harvard-affiliated Brigham and Women's Hospital.

EDUCATION

Master of Biomedical Data Science & Informatics, Clemson University 08/2024 – 12/2025
GPA: 3.75/4.0

Bachelor of Biomedical Sciences (Hons.), Sri Ramachandra Institute of Higher Education and Research 08/2019 – 02/2024
GPA: 8.61/10

PROFESSIONAL EXPERIENCE

Brigham and Women's Hospital, Harvard Medical School, 04/2023 – 10/2023 | Boston, MA
Intern - Engineering in Medicine

- Supported **clinical diagnostics research** involving point-of-care fertility devices and imaging workflows.
- Supported development of **CNN-based models**, improving diagnostic accuracy by **30%**.
- Organized, validated, and documented **clinical and imaging datasets** for downstream analysis.
- Prepared analytical summaries supporting research and clinical decision-making.

Cozy Systems - Data Analyst 04/2025 – 12/2025 | Cumming, GA

- Built and maintained **Power BI dashboards** supporting healthcare operations, data quality monitoring, and executive reporting.
- Automated **ETL pipelines (SSIS)** integrating SQL Server, Excel, and API data, reducing manual effort by **40%**.
- Developed **DAX measures, KPIs, forecasting dashboards**, and implemented **Row-Level Security (RLS)**.
- Optimized SQL queries and indexing, improving performance by **30%**.
- Performed routine **data validation, reconciliation, and QA** to ensure accurate reporting.

Cozy Systems - SQL/Power BI Developer 11/2023 – 08/2024 | Chennai, IN

- Designed and implemented a **SQL Server data warehouse** using star-schema modeling.
- Built **stored procedures, SSIS packages, and semantic models** for validated and secure reporting.
- Supported enterprise BI solutions aligned with operational and compliance requirements.

TECHNICAL SKILLS

BI & Analytics: Power BI, Tableau, DAX, Excel Dashboards

Databases & ETL: SQL, SQL Server, T-SQL, SSIS, SSRS, MongoDB,

Programming & Statistics: Python, R, SAS, Regression, Statistical Modeling,

Healthcare Informatics & Clinical Systems: EHR Systems, **REDCap**, ICD-10, CPT, FHIR, HL7, HIPAA, Clinical Decision Support

Tools & Platforms: Power BI Service (RLS), Git, Jira, APIs, Microsoft Office

PROJECTS

FHIR Bulk Data Ingestion Pipeline (MongoDB + Python)

Healthcare Data Engineering Project 08/2024 – 12/2025

- Built a scalable Python pipeline to ingest bulk **FHIR NDJSON** data into **MongoDB**, simulating a real-world EHR backend.
- Processed key FHIR resources (Patient, Observation, Condition, Encounter) to support analytics, reporting, and CDS use cases.

Biomedical Informatics (EHR & CDSS) Clemson University

Graduate Healthcare Informatics Project 08/2024 – 12/2025

- Worked with EHR charting, vitals, orders, and documentation aligned with SAFER guidelines to understand clinical workflows.
- Evaluated CDSS alerts and applied ICD-10, CPT, FHIR, HL7, and HIPAA standards to support safe clinical data use.

PUBLICATION

Fertility and Sterility

12/01/2024

Mitsunami, M., Kandula, H., Sivakumar, A.D., Deshpande, T.G., Kumar, J., **Gnanasambhandam, S.**, Thirumalaraju, P., Kanakasabapathy, M.K., Bormann, C.L., Kathrins, M., Shafiee, H., Chavarro, J.E., & Hart, J.E.