

# SUSITRA GNANASAMBHANDAM

Healthcare Data Analyst | Clinical Informatics | BI Analyst

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## SUMMARY

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Healthcare Data Analyst experienced in **EHR workflows, SQL, Power BI, SSIS**, and HIPAA-compliant reporting. Background in **health informatics and biomedical sciences**, supported by graduate training at Clemson and clinical research at Harvard. Skilled in creating dashboards and automated workflows for clinical and operational improvement.

## PROFESSIONAL EXPERIENCE

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### Intern - Engineering in Medicine

*Brigham and Women's Hospital, Harvard Medical School*

04/2023 – 10/2023

Boston, MA

- Supported clinical diagnostics research involving **point-of-care fertility devices** and **smartphone-based analysis**.
- Built **deep learning (CNN) models**, improving diagnostic accuracy by **30%** and reducing manual review time.
- Assisted with **data collection**, imaging workflows, prototype testing, and usability evaluation.
- Prepared analytical summaries supporting research decisions.

### Graduate Project - Biomedical Informatics (EHR & CDSS)

*Clemson University*

08/2024 – 12/2024

Clemson, SC

- Performed **EHR charting, vitals, orders, and documentation** aligned with SAFER guidelines.
- Evaluated **clinical decision support (CDSS)** alerts and workflow optimization strategies.
- Studied how systems like **Epic** support research datasets, quality reporting, and population health.
- Completed training in **ICD-10, CPT, FHIR, IHI, HL7, HIPAA**, and healthcare data standards.

### Data Analyst

*Cozy Systems*

04/2025 – 12/2025

Cumming, GA

- Built **Power BI dashboards** improving reporting efficiency for internal teams and healthcare clients.
- Automated **ETL pipelines (SSIS)** integrating SQL Server, Excel, and API datasets; cut manual work by **40%**.
- Developed **DAX measures, KPIs**, and forecasting dashboards for leadership.
- Improved SQL query performance by **30%** through optimization and indexing.
- Managed **Row-Level Security (RLS)** and secure publishing in Power BI Service.

### SQL/Power BI Developer

*Cozy Systems*

11/2023 – 08/2024

Chennai, India

- Built a **SQL Server data warehouse** using star-schema modeling.
- Created **stored procedures, triggers, and SSIS packages** for validated and automated reporting.
- Performed **performance tuning** improving system speed and reliability.
- Designed **semantic models** and datasets for enterprise BI reporting.

## PROJECTS

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### SAS-Based Student Performance Analysis

*Clemson University*

Used SAS for cleaning, regression, and clustering to identify key academic performance drivers.

### **Power BI Sales & Order Dashboard**

*Cozy Systems*

Built end-to-end dashboard with DAX, time intelligence, and automated workflows; reduced reporting time by 35%.

### **Phenylketonuria Molecular Docking Study**

*Sri Ramachandra University*

Analyzed PAH gene mutations using docking, stability simulations, and conservation analysis.

## **TECHNICAL SKILLS**

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### **Business Intelligence**

Power BI, Tableau, Excel Dashboards, DAX, Data Modelling

### **Database & Engineering**

SQL, SQL Server, T-SQL, SSIS, SSRS, MongoDB (Atlas), ETL Pipelines, Power Automate

### **Programming & Analytics**

Python, R, SAS, Regression, Statistical Modelling, Data Visualization

### **Automation & Tools**

Power BI Service (RLS), Jira, Git, API Integrations, Microsoft Office

### **Health Informatics**

EHR Systems, ICD-10/CPT, FHIR, IHI, HL7, HIPAA, Clinical Decision Support

## **PUBLICATION**

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### **Fertility and Sterility**

12/01/2024

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

## **EDUCATION**

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### **Master of Biomedical Data Science & Informatics**

08/2024 – 12/2025

*Clemson University*

GPA: 3.75/4.0

### **Bachelor of Biomedical Sciences (Hons.)**

08/2019 – 02/2024

*Sri Ramachandra Institute of Higher Education and Research*

GPA: 8.61/10