

# Shrramana Ganesh Sudhakar

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## EDUCATION

**Georgia Institute of Technology, Atlanta, GA**

MS Bioinformatics

August 2023 - December 2024(Expected)

GPA: 4/4

**Karunya Institute of Technology and Sciences, Tamil Nadu, India**

B.Tech Bioinformatics

May 2016 - June 2020

GPA: 8.3/10

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## SKILLS

**Programming Languages:** Java, Python, R, SQL, HTML, CSS, Selenium (automation testing), Bash

**Cloud:** AWS (S3, Dynamodb, Lambda, API gateway, SageMaker), Google Cloud Platform, Vertex AI

**Project management:** Jira, Microsoft Office suite, Git, Jenkins, Agile & Scrum methodologies

**Bioinformatics skills:** Read processing, Gene expression & Phylogenetic analysis, EHR data handling, RT-PCR, Nextflow, Gel electrophoresis

**Machine Learning:** Supervised learning models, NumPy, Pandas, Scikit-Learn, SciPy, Matplotlib, Tensorflow

**Interpersonal Skills:** Hardworking, Team management, Multitasking, Adaptive, Good Communication

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## PROJECTS & INTERNSHIP

- **Bridge2AI-Voice Summer School** - Help understand the new clinical voice dataset and develop voice disorder AI prediction models (Winning team of Bridge2AI Hackathon), **University of South Florida**.
  - **Dashboard and LLM integration** using Vertex AI and Google Cloud Platform to gather insights from EHR data, **Curanostics Healthcare** startup
  - **Nextflow pipeline** -Developed a genomic outbreak prediction pipeline involving read processing, gene prediction, genotyping & Taxonomic analysis, **Georgia Tech** academic project.
  - **RNA-seq and differential gene expression analysis** - Utilized Python, R (Salmon) for human genetic sequences, with a specific focus on individuals with type 2 diabetes and analyzing distinct patterns of gene activity, **Georgia Tech** academic project.
  - **Drug market Dashboard**- Dashboard to display Clinical research & Drug updates from EHR data generated through Synthea using react, **Georgia Tech** academic project.
  - **Bioinformatics analysis and validation of NAC gene expression in Sugarcane varieties exposed to oxidative Stress** ( RT-PCR, Primer designing, Gel electrophoresis) - Indian Council of Agricultural Research, Coimbatore.
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## WORK EXPERIENCE

**Georgia Institute of Technology**

**Graduate Research Assistant**

**Atlanta, USA**

January 2024- Present

- Developing a Supervised machine Learning model and conducting statistical analysis to build a screening panel for Pediatric Metabolic Dysfunction-Associated Steatohepatitis (MASH) Diagnosis and response to treatment.
- Custom EMR dataset creation for Sepsis treatment from MIMIC using Python and SQLite

**Accenture**

**Custom Software Engineering Analyst**

**Coimbatore, India**

October 2020- July 2023

- Handling backend database in a prompt engineering team for AI chat, utilizing Python and AWS.
  - Network engineer for a telecom project, responsible for network design.
  - Built web automation scripts using Selenium-Java to minimize manual workload in the project.
  - Led a sub-team of 10 people and had engagements with the client for project scope development.
  - Boosted work quality and efficiency by nearly 60% with new workflow and project management strategies.
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## CERTIFICATES AND WORKSHOP

- Data Scientist - Simplilearn certification
- Next Generation Sequencing Sample Prep and Data Analysis workshop - IBAB, Bangalore