

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

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

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