

# SHREE HARI ANBAZHAGAN

Chennai, Tamil Nadu - 600106, India

 [linkedin.com/in/a-shreehari](https://www.linkedin.com/in/a-shreehari)

 +91 7667899999

 [shreeharianbazhagan@gmail.com](mailto:shreeharianbazhagan@gmail.com)

## EXPERIENCE

### Comcast

July 2023 - present

Chennai, India

#### Development Engineer 1, Data Engineer

- Developed ETLs integrating Kafka with AWS Redshift, achieving near-zero downtime and improving reliability.
- Architected scalable, secure solutions with **IaC** tools and **draw.io**, reducing deployment time by **30%**.
- Designed **EnvSyncer** to sync data between environments, improving data availability.
- Built **reconciliation frameworks** to validate data integrity between the source and Data Warehouse, improving data accuracy by **40%**.
- Introduced anomaly detection using **AWS Lookout for Metrics**, then integrated it with our in-house application, enhancing user experience.
- Led **knowledge transfer** on the Data Warehouse and existing frameworks, wrote documentation to address gaps, and enabled team on-boarding.
- Assisted the **Service Reliability Engineering** team in refining **deployment strategies** through testing and performance enhancements.

### Comcast

Jan 2023 - June 2023

Chennai, India

#### Intern

- Developed a **Slack notification system** to monitor ETL runs, job status. Providing real-time alerts and daily cost breakdowns to enhance operational efficiency.
- Contributed to the **Data Warehouse** application to create a single source of truth for organizational data.
- Learned about Comcast's **construction ecosystem**, Wi-Fi connectivity processes, business model, and the **significance of data** in driving business decisions.

### Lasso and Marquee Design Solutions

June 2019 - July 2019

Chennai, India

#### Intern

- The internship provided valuable insights into IT operations, teamwork and professional communication.

## EDUCATION

### Indian Institute of Technology Madras

Sep 2023 - present

Chennai, India

#### Diploma in Data Science

Gaining expertise in analytics, machine learning, and big data technologies through the program.

### SASTRA Deemed University

July 2019 - May 2023

Thanjavur, India

#### Bachelor of Technology in Computer Science & Engineering,

Achieved First Class with Distinction.

## PROJECTS

### IITM Machine learning project

Sep 2024 - Nov 2024

- Built models to predict bank telemarketing success.
- Performed **EDA and preprocessing**, **trained 4 models**(Logistic Regression, k-Nearest Neighbour, RandomForest, Hist-GradientBoostingClassifier), achieving **87% accuracy** and 0.75 F1 macro score.
- Identified bias in the data skewed toward negatives, leading to challenges in achieving better model performance.

### Sentiment Analysis and Topic Modeling for Tweets

Dec 2023 - Feb 2024




- Contributed to the "Inside Out - Understanding User Emotions" ML project, analyzing tweet sentiments and topics, presented my findings at **G20 Library Summit 2024**.
- Compiled findings in Excel sheets with **sentiment analysis**, **topic modeling**, **engagement metrics**, **heat maps**, and **graphs to visualize data trends**.
- Used **pysentimiento** and **cardiffnlp/tweet-topic-21-multi** to achieve **94.53% accuracy** in tweet insight extraction.

### Diabetes prediction


Jan 2022 - June 2022

- Developed **Django web application**, utilizes **machine learning algorithms** to predict using **basic health metrics**.
- Compares each prediction with **six different machine learning models**(Decision Tree, Gaussian Naive Bayes, k-Nearest Neighbour, Logistic Regression, Adaboost, Random Forest) and publishes only the one with the best accuracy.
- Integrated **PDF report generation** and **SMS notification** features, with **Random Forest** achieving **0.87 accuracy**, delivering results in downloadable and mobile-friendly formats.



### Other projects

- Helper ** Created reusable helper classes for AWS, API integration, Kafka, and Slack.
- IITM Business Data Management project ** Tackles business challenges through data management and analysis.
- Resume ** using LaTeX.


## AWARDS & ACHIEVEMENTS

- **Champ Award**, Comcast (Q4 2023, Q1 2024) 2023 - 24  
Awarded consecutively for outstanding performance and contributions.
  - **Good Presentation Award, G20 Library Summit** Feb 8, 2024  
Recognized for an impactful presentation on technology integration in libraries.
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## WORKSHOPS

- Organized a successful **SQL Workshop Fundraiser** Sep 8, 2024  
Raised funds for **Bhumi** to support shelter children through the LEM program.
  - Attended the **Responsible & Safe AI Workshop** at **IIT Madras** Nov 19, 2023  
Explored topics like legal bias, AI attacks, and unlearning, hosted by CeRAI.
  - Participated in a **Web Development Workshop** conducted by **Sastra University** Aug 5-7, 2022  
A three-day hands-on program focused on building web applications using Django and Python.
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## PRESENTATIONS

- Shared insights at **G20 Library Summit** Feb 7-9, 2024  
Where technology integration in libraries, applying sentiment analysis and topic modeling on X / Twitter data.
  - Discussed data engineering solutions at **Comcast** 2024  
Focusing on performance optimizations and key insights.
  - Demonstrated the **Diabetes Prediction System** project 2022  
Highlighting multi-model machine learning techniques and a user-centric web app.
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## SEMINARS & CONFERENCES

- Attended the **AWS User Group Chennai** session on **GenAI and serverless technologies** Sep 3, 2024  
Speaker **Eric Johnson** provided valuable insights on serverless and GenAI.
  - Participated in **IIT E-Summit 2024** Mar 9, 2024  
Enjoyed talks by venture capitalists **Jivraj Singh Sachar**, **Ranjith Menon**, and **Vaibhav Domkundwar**.
  - Attended the **AWS Awesome Day** conference June 8, 2024  
Sessions focused on machine learning, serverless, and big data analytics.
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## TECHNICAL SKILLS

**Programming:** Python, SQL, Terraform (Infrastructure as Code), shell commands (basic), YAML, JSON.

**Tools and Frameworks:** AWS (AWS Lambda, Glue, S3, Redshift, Athena, IAM (Roles, Policies), Secrets Manager, CloudWatch), Boto3 (AWS API), REST API, PostgreSQL, Docker, Kafka, Machine Learning (ML), Git, VSCode, JIRA, Excel.

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## VOLUNTEERING & EXTRACURRICULARS

**Bhumi** Sep 2024 - present  
**Centre Coordinator** Chennai, India

- Organized workshops, events, and additional classes to meet children's needs, including a **SQL workshop** to raise funds for better living conditions and sports events to foster stronger community engagement.

**Bhumi** July 2024 - Sep 2024  
**LEM Volunteer** Chennai, India

- As part of the Ignite **Little Einstein Mathematics** program, we teach math to children in shelter homes using interactive and hands-on methods.

**Sastra** July 2022 - June 2024  
**NSS Leader** Thanjavur, India

- **Increased annual blood donation camps** and supported local community for crowd control and festival management.
- Strengthened community ties by addressing local hospital needs and supporting the temple, earning respect and recognition.

**Sastra** Aug 2019 - June 2022  
**NSS Volunteer** Thanjavur, India

- Participating in community initiatives such as blood donation camps and shelter home cleanups.