

# SHREE HARI ANBAZHAGAN

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## 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 DWH, improving data accuracy by **40%**.

### 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 (DWH)** application to create a single source of truth for organizational data.

### 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**, achieving **87% accuracy** and 0.75 F1 macro score.

### Sentiment Analysis and Topic Modeling for Tweets

Dec 2023 - Feb 2024




- Contributed to "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

Sep 2022 - Dec 2023

- Developed **Django web application**, utilizes **machine learning algorithms** to predict using **basic health metrics**.
- 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.

## 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.