A A D I T H Y A   C

S O F T W A R E   E N G I N E E R

C O N T A C T

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S K I L L S

1. AI/ML & Data
- Python
- AWS SageMaker
- TensorFlow
- QGIS
- PowerBI
- SQL

2. Programming & Core
- Java
- Groovy
- Git/GitLab

3. Cloud & Infrastructure
- AWS s3
- VMware ESXi
- Postman API

E D U C A T I O N

B.Tech CSE with AI and Data Science
SASTRA University,Thanjavur
2020-2024
CGPA : 7.8409

Grade 12
Sree Gokulam Public School, Chengalpattu
2020
Percentage : 86.6

Grade 10
Maharishi Vidya Mandir, Chengalpattu
2018
Percentage : 79

P R O F I L E

Software Engineer with progressive experience at Hitachi Energy, promoted through Intern and Trainee roles, specializing in Geospatial Data Analysis and AWS-based ML pipelines. Seeking to leverage strong foundational skills in Python, AWS SageMaker , and Groovy to deliver high-accuracy models as an AI/ML Engineer

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W O R K   E X P E R I E N C E

Hitachi Vegetation Management (Solution Engineer)

Hitachi Energy Technology Service Ltd   August 2025 - Present

- Streamlined the HVM data pipeline, ingesting over 100GB of vector/raster data and reducing data preparation time by 20%.
- Executed **ML pipeline on AWS SageMaker** by processing Maxar satellite imagery from S3, enabling large-scale vegetation analysis across 50+ grids.
- Performed **geospatial data analysis using QGIS**, ensuring accurate mapping and insights for vegetation management.

Nashville Electric Services (Software Engineer Trainee)

Hitachi Energy Technology Service Ltd   February 2024 - July 2025

- Developed and deployed 5 key client interfaces using **Groovy**, reducing manual data entry.
- Ensured API reliability by conducting **comprehensive web services testing using SoapUI** for core modules.
- Used Git Bash to commit and push changes into GitHub.
- Implemented SQL-backed data validation and uniqueness constraints for work order assignment, eliminating data duplication errors in a critical financial process.
- Established a 3-point data verification pipeline (file, database, report) to ensure high data integrity for regulatory control reporting.
- Managed GitLab repositories for collaborative code management.
- Provided technical assistance in the Vegetation Management project.
- Managed and monitored 10+ critical Virtual Machines using VMware ESXi, ensuring 99.9% uptime for internal development environments.

R E S P O N S I B I L I T I E S

Web 3.0 SASTRA Club   Dec 2022 - Sept 2024

- Team member in Design Cluster.
- Working with the team to make content..

Daksh Merchandise Club SASTRA   May 2022 - Sept 2024

- Co-Head of the club.
- Working with the team to raise funds for the college fest.

PROJECTS

Prediction of Chronic Kidney Disease

- Benchmarked performance against 7 ML classifiers and utilized 3 feature selection techniques to optimize model inputs.
- Achieved a final classification accuracy of 96% using a Deep Learning model after balancing the dataset with SMOTE.

NammaQR

- QR-based digital menu and order management web app built using AI.
- It helps restaurants and cafés digitize menus, simplify order handling, and move toward a touchless, zero backend maintenance and seamless scalability.

Machine Learning Pipelines with Azure ML Studio

- Created end-to-end ML pipelines in MS Azure Studio, spanning data preprocessing, feature engineering, and rigorous model evaluation.

Object Localization using TensorFlow

- Used TensorFlow for locating an object in an image.

Packet Filtering

- This is a Computer Networks project.
- Using the firewall to prevent spammers and hackers by blocking them with their IP Address.
- Packets are the modules that contains Data , Receiver address, and Sender address.

INTERESTS

- Photography
- Cooking
- Musical Keyboard

CERTIFICATES

Innovating with Google Cloud Artificial Intelligence
January 2025

Generative AI and Its Impact on Everyday Business
December 2024

Machine Learning Onramp - MathWorks
April 2023

AWS Educate Machine Learning - DeepRacer
July 2022 - Sep 2022

Database Management System - NPTEL
Jan 2023 - Apr 2023

Data Visualization with Power BI
July 2023

Team Leadership and Management
Jan 2023

LANGUAGES

English
Tamil