

Ghanashyam R

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Electrical and Electronics Engineering Graduate from Government Engineering College,pursuing BS in Data Science & Applications from IIT Madras.I have a robust programming foundation, seeking opportunities to contribute technical expertise and collaborate on impactful projects in the Tech industry. I am a passionate, hardworking individual who strives for excellence and possesses a team-oriented personality.

EDUCATION

BTech Electrical & Electronics Engineering • Government Engineering College, Thrissur (2024)

with **Minor in Machine Learning**

BS Data Science & Applications • Indian Institute of Technology, Madras (2021 – Current)

(Degree Level)

- ≡ Completed Foundational Level,Diploma in Data Science and Diploma in Programming
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PROFESSIONAL EXPERIENCE

IROV Technologies Private Limited,Kalamassery • Embedded Systems Intern 10/2023 - 04/2024

- ≡ Collaborated on a four-member team to implement Autonomous Surface Vehicle in ROS along with integration of payloads for applications such as Bathymetry,Mapping and Charting.

Kerala State Electricity Board, Madakkathara • Internship Trainee 05/2023 - 05/2023

- ≡ Participated In the routine check up of the Electrical Equipments in the Yard.
 - ≡ Participated in the operations of the Control Room.
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ACADEMIC & EXTRACURRICULAR PROJECTS

CrimeCast - Machine Learning Project :(Scikit-learn,pandas,XGBoost,Random Forest,Logistic Regression)

github.com/ghanashyam-r/Machine-Learning-Project-CrimeForecast

- ≡ Completed a Machine Learning project on Kaggle,achieving 95.6% accuracy with an XGBoost model on the LA crime dataset, alongside exploring Logistic Regression and Random Forest models.

Library Management System : (Vue.Js,Celery,Redis,Flask,SQLAlchemy,HTML,CSS,Bootstrap)

github.com/ghanashyam-r/LibraryManagement

- ≡ Built a multi-user Library Management System with role-based access, e-book management, search, automated reminders, and performance optimization

Flask Grocery Store : (Python,Flask,SQLAlchemy,HTML,CSS,Bootstrap,Jinja2)

github.com/ghanashyam-r/grocerystore_flask

- ≡ Developed a fully functional, multi-user e-commerce application that facilitates efficient grocery shopping and product management.

Cloud Resume Challenge : (S3,CloudFront,Lambda,API Gateway,CICD,HTML,CSS,Python,DynamoDB)
github.com/ghanashyam-r/aws-CloudResumeChallenge

- ≡ Developed an engaging portfolio website as part of the Cloud Resume Challenge, featuring secure deployment, API creation, and a seamless Continuous Integration/Deployment pipeline

Cloud Native Monitoring Application on Kubernetes :(Flask, Psutil,Docker, ECR, Kubernetes (EKS), Boto3)

- ≡ Implemented a comprehensive cloud monitoring system, enabling real-time resource tracking and efficient scalability for optimized management.

Movie Recommendation System : (Python,Flask,Numpy,Pandas,CosineSimilarity)
github.com/ghanashyam-r/Movie-Recommendation-System

- ≡ Developed a Movie Recommendation System utilizing machine learning techniques including cosine similarity, TF-IDF vectorization.

Implementation of Autonomous Surface Vehicle using Robot Operating System:

- ≡ Developed and simulated autonomous surface vehicle in Robot Operating System(ROS) in Gazebo environment and implemented an obstacle avoidance algorithm.

Miniature Home Automation :

- ≡ Developed a miniature prototype for home automation using Arduino,LDR,RFID and Servo-motor

SKILLS

- ≡ **Programming:** Java,Python,C
- ≡ **Machine Learning and Data Analysis:** XGBoost, Logistic Regression, Random Forest, KMeans Clustering, GridSearchCV, EDA, Feature Engineering, Data Preprocessing, Scikit-learn, Pandas, NumPy, Matplotlib.
- ≡ **Web Development:** VueJs,SQLite,Flask,HTML/CSS,Bootstrap
- ≡ **Cloud,Infrastructure and Version Control:** AWS,Linux/Unix,Git
- ≡ **Simulation and Modelling:** ROS,Matlab-Simscape,Simulink

CERTIFICATIONS

- ≡ **Amazon Web Services (AWS) :** AWS Certified Cloud Practitioner
- ≡ **Oracle :** Oracle Cloud Infrastructure 2024 Generative AI Certified Professional
- ≡ **Diploma in Data Science :** BS Data Science & Programming, IITM
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