SHESHAN N
Aspiring Data Scientist

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My Portfolio

ABOUT ME

I am Sheshan, a dedicated B.Tech student specializing in Artificial Intelligence and Data Science. I am passionate about technology and thrive on challenges. With a strong work ethic and commitment to excellence,I consistently deliver exceptional results. I actively collaborate with others and contribute to a positive team dynamic. I have a proven academic track record and stay updated with the latest advancements in the field. I am confident in my ability to make a significant contribution to any organization.

PERSONAL DETAILS

- Date of Birth: 30/9/2004
- Nationality: INDIAN
- Mother Tongue: Tamil
- Address: No:21,Shakthi Sree Nager 5th cross street melmaruvathur-603319, chengalpattu

EDUCATION

RAMCO Institute of Technology
B.Tech Artificial Intelligence and Data Science
- CGPA Till 5th Semester: 8.21
- Graduation Year: 2025

Adhiparasakthi Matric. hr. sec. school
SSLC & HSC | 2018 - 2021
- SSLC : 67%
- HSC : 78.29%

INTERNSHIP

GEONS LOGIX PRIVATE LIMITED (ML)
Training Internship | 23.01.2022 - 08.05.2022

- Developed a machine learning model using logistic regression to predict car miles per gallon (MPG) based on automotive data.
- Addressed and resolved data challenges by implementing data imputation methods and thorough data cleaning techniques.
- Enhanced the model's accuracy, demonstrating the potential for improving fuel efficiency in the automotive industry.

HERA DIAGNOSTICS (Full Stack Development)
Training Internship | 17.11.2022 - 19.04.2023

- Developed a website for HERA DIAGNOSTICS by cloning an existing site using JavaScript, HTML, CSS, AngularJS, and Node.js.
- Quickly learned and applied AngularJS to deliver the project efficiently, despite it being a new technology.
- Successfully delivered a functional and visually appealing website, meeting the company's requirements. Link

RIT College Admission portal
Training Internship | Jun 2023 - September 2023

- Developed a digital college admission portal using HTML, CSS, JavaScript, and Django to streamline and secure the admission process.
- Enhanced the efficiency and security of the admission process, enabling faster and more reliable data management.
- Improved student data management and overall admission workflow, contributing to a smoother administrative experience. Link

INTERNEXT

Training Internship | 02.06.2022 - 08.10.2022

- Developed an APK using Electron.js, HTML, and CSS to enable remote monitoring and control of device settings via internet socket communication.
- Implemented a solution for seamless device management, allowing users to adjust and monitor device settings efficiently.
- Enhanced user experience with a streamlined interface for real-time device control and tuning.   **Link**

ICTAcademy OpenWeaver (Data science)

Training Internship | August 2023 - September 2023

- Gained foundational knowledge in machine learning and data science through ICTAcademy OpenWeaver, covering essential concepts and techniques.
- Acquired skills in data analysis, algorithm development, and model evaluation, laying the groundwork for further specialization in data science.   **Link**

PROJECT/EXPERIENCE

Plant Disease Detection: A Deep Learning Approach for Automated Identification of Leaf Diseases

- Implemented a robust Plant Disease Detection System using TensorFlow and Keras, incorporating Convolutional Neural Networks (CNN) for classifying leaf images into healthy, powdery, and rust-infected categories. Utilized data preprocessing and augmentation techniques such as resizing, random contrast adjustments, and rotation to enhance model performance. Achieved a validation accuracy of 96.88% by optimizing model architecture and hyperparameters. Enhanced diagnostic accuracy and efficiency through real-time predictions and detailed visualizations of training and validation metrics.   **Link**

Car Price Prediction project:

- Developed a Car Price Prediction model using logistic regression to estimate vehicle prices based on various features. Implemented comprehensive data preprocessing and cleaning techniques to address missing or inconsistent data. Achieved accurate predictions by fine-tuning the model and evaluating performance metrics. Enhanced data-driven decision-making for automotive pricing through reliable and efficient predictive analysis**.**

CERTIFICATIONS

- **Programming Languages: Python,**
- **Data Analysis**
- **Natural Language Processing**
- **Machine Learning**
- **Deep Learning**
- **Data Visualization**
- **Big Data**
- **SQL**
- **MATLAB**

KEY SKILLS

- Python
- Django
- Postgresql
- MySQL
- Angular
- Electron js
- Logical Thinking
- Problem Solving skill
- HTML & CSS
- Time management
- Bootstrap
- Power bi tool
- Data Structures
- Exploratory data analysis
- Data Visualization

Natural Language to SQL Query System: (EZOFIS private limited **)**
- the development of an AI-driven system that converts natural language into SQL queries, focusing on data labeling to improve query accuracy

Student Attendance Detection System:
- Developed a student attendance detection system using face recognition, focusing on data collection and training the model for accurate attendance tracking

Real-Time Implementations:

College Fuel System Management:
- Developed a comprehensive Fuel Management system using Django, integrating features to capture fuel details like vehicle number, fuel type, and amount. Generated PDFs with QR codes for receipts, implemented a verification page to scan QR codes and ensure authenticity using hash functions. Utilized Power BI tools for advanced data analysis, providing valuable insights into fuel consumption patterns and optimizing management processes. Link

Student Mark Management:
- Implemented a Student Semester Mark Management System using [specific technologies used, if applicable]. Developed features to record and manage student marks across different semesters, including data entry, retrieval, and reporting functionalities. Designed a user-friendly interface for efficient data handling and visualization of academic performance. Enhanced data accuracy and accessibility through secure data storage and intuitive report generation.   Link

College Seminar Hall Booking project:
- Developed a College Seminar Hall Booking System using Django, HTML, CSS, and JavaScript. Implemented features to facilitate online booking of seminar halls, including availability checking, reservation management, and user notifications. Designed an intuitive user interface for seamless interaction and integrated backend functionalities for efficient data handling and booking confirmation. Enhanced administrative efficiency and user experience through a robust booking system. Link

College Admission Portal project:
- Developed a digital College Admission Portal for RIT College using HTML, CSS, JavaScript, and Django. Streamlined the admission process by creating a secure and efficient online platform for managing student applications and data. Implemented features to enhance data security and user experience, resulting in a more organized and accessible admission workflow. Link