Rishi P M

D468/A Raja Rajan Street,
Tennur Anna Nagar,
Trichy-620017

Email : rishimahes09@gmail.
Mobile : 8667465990
LinkedIn : https://www.linkedin.com/in/rishi16/
Github : https://github.com/RishiMahes
Portfolio : https://rishimahes.github.io/Rishi-Portfolio/

Profile :

Motivated and technically proficient Computer Science graduate with a strong foundation in software development and machine learning. Experienced in web development and database management, with a passion for continuous learning and problem-solving. Eager to contribute to innovative projects and grow within a dynamic tech environment.

Education Qualifications:

Degree	Year	Institute	Percentage
B.Tech Computer science and Business systems	2024	SASTRA UNIVERSITY	77%
HSC	2020	AKKV	82.3%
SSLC	2018	MAHATMA GANDHI CENTENARY VIDYALAYA	78.4%

Certifications:

- Introduction To Industry 4.0 And Industrial Internet Of Things I SWAYAM I NPTEL (10/2022)
- The Joy of Computing using Python| SWAYAM | NPTEL (04/2024)

Career Objectives:

1. **Career Development Activities**
   - Develop and maintain web applications using HTML, CSS, and JavaScript.
   - Practice writing clean, efficient, and well-documented code in Python and C++.
   - Work on personal projects to enhance front-end development skills.
   - Utilize SQL for database management and queries.
2. **Machine Learning**
   - Assist in the development and implementation of machine learning models.
   - Perform data cleaning, preprocessing, and analysis using Python libraries such as pandas and scikit-learn.
   - Explore and experiment with different algorithms to optimize model performance.

Projects:

1. Brain Stroke Detection Model using Soft Voting - Analyzed a medical dataset for stroke detection using machine learning techniques. Processed data, addressed class imbalance with SMOTE, and trained various models including Logistic Regression, SVM, Random Forest, and ensemble methods like Voting and Bagging. Evaluated models using accuracy, precision, recall, and F1-score metrics. Applied feature selection with RFECV and compared model performance visually. Developed a Voting Classifier and assessed its effectiveness in predicting strokes.

Keywords: Stroke Detection, Machine Learning, SMOTE, Ensemble Methods, Model Evaluation

2. Digital FIR-Design Thinking - This project endeavors to introduce a transformative approach to the traditional First Information Report (FIR) system. Leveraging Design Thinking methodology, the project focuses on innovating and digitalizing the FIR procedure to streamline case handling and reporting. Beginning with an empathetic understanding of challenges faced by both law enforcement and the public, the project aims to enhance efficiency and accessibility in filing and managing reports. By proposing a model that integrates user-centered design principles, it seeks to revolutionize how FIRs are processed, aiming for a more responsive and user-friendly system.

3. Eye Disease Classification using Machine Learning Techniques - Developed models using transfer learning with convolutional neural networks (CNN) with pretrained architectures (ResNet, DenseNet, Inception, MobileNet) for multi-label classification of ophthalmological diseases like diabetes, glaucoma, myopia, hypertension, AMD, cataract on ODIR fundus image Dataset.

Technical Skills:

Programming Languages	:	Python, C++
Web Development	:	HTML, CSS, JavaScript
Database Management	:	MySQL, Mango DB
Machine Learning	:	Fundamentals and practical applications
Version Control	:	Git
Soft Skills	:	Problem-solving, teamwork, adaptability, and effective communication

Languages:

- English
- Tamil

Personal Details:

Date of Birth	: 09.06.2003
Father's Name	: P Maheswaran
Sex	: Male
Nationality	: Indian

DECLARATION:

I hereby declare that the details furnished above are true to the best of my knowledge.

Signature
(Rishi P M)