KRISHNA RAJAN S

Application Developer

🏠 Personal-Portfolio

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SUMMARY

AI and Machine Learning developer with a solid foundation in software engineering and hands-on experience in building intelligent, real-world systems. Skilled in Python, TensorFlow, PyTorch, and Scikit-learn, with a focus on creating ML models for fraud detection, cybersecurity, and automation. Experienced in full-cycle development from data processing to deployment. Passionate about solving complex problems with scalable AI solutions and eager to contribute to innovative teams driving real-world impact through technology.

EDUCATION

Bachelor of Engineering in Electronics and Communication Engineering

Sathyabama Institute of Science & Technology
📅 2023 – 2027

KEY SKILLS

- Python
- C
- C++
- Html
- Tailwind CSS
- Javascript
- React.Js
- Git
- Machine Learning
- Artificial intelligence
- Amazon Web Servicesa
- MongoDB
- Firebase
- Figma
- Flutter
- Redux
- MUI

CERTIFICATIONS

Programming in Python
Neo orange Technology

Machine Learning Operations (MLOps) for Generative AI
Google

Machine Learning Crash Course
Google

Artificial Intelligence Fundamentals
IBM

Intro to Machine Learning
Kaggle

PROFESSIONAL EXPERIENCE - PROJECTS

Cyber Attack Detection Using Machine Learning

- Predict whether a network connection is normal or a cyber attack
- Apply machine learning models for real-time detection
- Provide a simple, user-friendly interface for predictions
- Lay the foundation for deploying cybersecurity solutions in live environments

Early-Stage Phishing Detection Using Screenshot-Based Vision Transformer

- Built a novel phishing detection system leveraging Vision Transformers (ViT) to analyze the visual appearance (screenshots) of websites instead of traditional URL or HTML-based methods.
- Collected and curated a custom dataset of phishing and legitimate websites using Selenium and PhishTank API, capturing real-time screenshots.
- Trained a ViT/CNN-based deep learning model achieving high precision and recall in detecting visually deceptive phishing sites.
- Developed a Streamlit-based web app to input a URL, take a screenshot of the page, and predict phishing risk in real-time.

Full stack MERN Blog Website

- User Authentication: Sign Up and Login: Allow users to create accounts and log in securely.
- Blog Post Management: Create, Read, Update, Delete (CRUD): Enable users to create, edit, view, and delete their blog posts.
- Admin Dashboard: Post Management: Provide admins with tools to manage all posts, including the ability to edit or delete posts created by users.

CREATIVE PROBLEM-SOLVING STORIES

1. Improved Website Performance for a Personal Project
Challenge: A personal portfolio website had a slow loading time due to unoptimized images and inefficient JavaScript.
Solution: Implemented lazy loading for images and minimized JavaScript using a build tool like Webpack.
Impact: Reduced page load time by 40%, leading to a smoother user experience.

HACKATHONS

Sustainathon Hackathon
(Vellore Institute of Technology) | November 2023

iCUBE 3.0
(Sri Venkateswara College of Engineering) | February 2024

Hackathon 2k24
(Sathyabama Institute of Science and Technology) | March 2024