ARYAN KUMAR SINHA

SOFTWARE ENGINEER

ABOUT ME

My name is Aryan, and I am a Computer Science Engineering graduate. I love programming and am always eager to learn and try new things. I have hands-on experience with various programming languages, database management, and machine learning. I enjoy solving problems and working on projects that make a difference. My skills cover a range of technologies, and I am excited about discovering more. I am open to opportunities that match my skills and interests.

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Portfolio

Linkedin

EDUCATION

Bachelor of Technology In Computer Science & Engineering (CSE)

2020 - 2024 **CGPA : 8.57**

- Vel Tech Rangarajan Dr. Sagunthala R&D Institute Of Science And Technology
- Chennai, Tamil Nadu, IN

SKILLS

- Time management
- Communication
- Critical thinking

TECHNICAL SKILLS

- C
- Java - JavaFx, Springboot
- Python - Flask, Pygame, Tkinter, Selenium
- DBMS - MySql, MongoDB, ScyllaDB
- ML - TF, Pil , Keras, OpenCV , Sklearn
- Basic Web Development - Html, CSS, JS

CERTIFICATES

Networking And Security Architecture With Vmware NSX
COURSERA 2020

WIPRO TALENT NEXT
WIPRO 2021

CCNAv7: Introduction to Networks
CISCO 2022

Cybersecurity Essentials
CISCO 2022

Data Analysis for Biologists
NPTEL 2023

WORK EXPERIENCE

La Trobe University, Australia
Research Internship

10/2023 - 04/2024

- In this Internship, I implemented a robust machine learning-based framework to detect smishing, achieving a 98% accuracy rate using ANN models.
- Collected and processed 50,000+ SMS datasets, applying feature engineering techniques like TF-IDF and word embeddings.
- Engineered and optimized diverse machine learning algorithms, such as Naive Bayes, SVM, Logistic Regression, CNN, and ANN, achieving a 50% improvement in smishing detection rates and cutting analysis time by 30%
- Created a user-friendly web GUI for real-time smishing detection, enhancing the practical applicability of the model and increasing detection speed by 40%.
- Presented the project findings to university faculties and 10+ stakeholders, receiving positive feedback.
- Gained hands-on experience in machine learning, data processing, and cybersecurity, applying theoretical knowledge to real-world challenges.

Blue Prism Group plc
Robotic Process Automation (RPA) Internship

10/2021 - 12/2021

- In this Internship, I learned to automate business processes using the Blue Prism platform, gaining foundational RPA knowledge.I established foundational knowledge in RPA through the Blue Prism® Foundation Training, gaining proficiency in automating business processes using Blue Prism's tools and methodologies.
- Advanced my technical expertise by completing 3 advanced courses like Blue Prism® Advanced Attribute Matching and Blue Prism® Advanced Data Items, which helped me refining skills in attribute matching and data item handling in RPA solutions.
- Applied RPA theories to real-world scenarios, designing and implementing 5 effective process automation solutions, reducing processing time by 30%.
- Focused on the security and scalability aspects of RPA deployment, mastering credential management and secure implementation practices.

PROJECTS

ANALYSIS AND IDENTIFICATION OF MALWARE USING MACHINE LEARNING WITH OPTIMIZED PARAMETER 2023

Minor Project

- Developed an advanced malware analysis and identification system using machine learning techniques.
- Achieved 95% accuracy in detecting obfuscated malware, with faster detection reducing analysis time by 40% and fewer false positives by 15%.

Song recommender using AI 2023

Hackathon

- Implemented in Python, using AI and data analysis to recommend songs based on user history.
- Achieved 86% accuracy in personalizing recommendations, effective across various music genres.

Setting High Score in Subway Surfer 2021

Personal Project

- Developed a Double Dueling Deep Q Network (D3QN) reinforcement learning algorithm to train model .
- Utilized Python and PyTorch, serving model using Tensorflow Extended (TFx).
- Set a high score of 14,569,684 in the game,placing in the top 1% of players globally.