GUHAN A

CHENNAI, TAMIL NADU, INDIA | guhanarulofficial@gmail.com | +91 8610663536

https://www.linkedin.com/in/a-guhan | https://github.com/Guhan-12

SKILLS

Languages	:	C/C++, Java, Python, JavaScript, TypeScript, SQL, HTML, MongoDB
Frameworks	:	Pandas, Numpy, Scikit-Learn, Matplotlib, ReactJS, NodeJS, AngularJS
Tools	:	Excel, Powerpoint, MySQL, Git, GitHub
Platforms	:	Visual Studio Code, Intellij IDEA, Jupyter Notebook, Android Studio
Soft Skills	:	Rapport Building, Strong Stakeholder management, Leadership, Communication

EDUCATION

Sri Krishna College of Engineering and Technology OCT 2022 – MAY 2026
Electronics and Communication Engineering
B.E, CGPA : 8.92

Kendriya Vidyalaya APR 2010 – MAY 2022
Computer Science
HSC: 95.4%
SSLC: 91%

EXPERIENCE

BSNL Chennai
Internship Trainee JUNE 2024 – JULY 2024

- Acquired hands-on experience with various network switches.
- Analyzed the role of switching mechanisms in optimizing network efficiency and data transmission.
- Explored and implemented different network topologies such as star, ring, mesh, and bus.
- Studied the detailed internal architecture and functionality of routers, including routing protocols.
- Gained in-depth understanding of the TCP/IP model, including the specific functions and protocols associated with each layer (physical, data link, network, transport, and application).

PROJECTS

1. **Hardware**: Smart Vehicle Accident Emergency Alert System

- Developed an advanced emergency alert system for vehicles to automatically detect and report accidents, enhancing safety and response times.
- Designed and implemented the overall system architecture.
- Developed real-time alert mechanism to notify emergency contacts.

- Conducted rigorous testing to ensure system reliability and accuracy.
- Enhanced vehicle safety measures through innovative technology integration.

2. **AI/ML**: Fake News Prediction

- Developed a machine learning model to predict fake news using a dataset of 20,000 news articles. The project aimed to combat misinformation by accurately classifying news articles as fake or real.
- Applied text preprocessing steps including tokenization, stemming, and removal of stop words to prepare the text data for modeling.
- Utilized logistic regression for binary classification of news articles.
- Split the dataset into training and testing sets using an 80-20 split with stratification to maintain class balance.
- Achieved a training accuracy of 97.6% and a testing accuracy of 95.4%, demonstrating the model's effectiveness and generalizability.

3. **AI/ML**: Text Generation Using GPT-2

- Developed a generative AI model to create coherent and contextually relevant text based on a given prompt using GPT-2.
- Implemented data preprocessing techniques such as tokenization and text cleaning to prepare the data for training.
- Fine-tuned the GPT-2 model on the collected dataset to improve its ability to generate contextually relevant text.
- Developed scripts to generate text based on user-provided prompts, ensuring the generated text was coherent and contextually appropriate.

ACHIEVEMENTS / CERTIFICATIONS

1. HackerRank Python (Basic)
2. HackerRank Java (Basic)
3. HackerRank SQL (Basic)
4. HackerRank Problem Solving (Basic)
5. NPTEL Ethics is Engineering
6. NPTEL Stress Management
7. NPTEL Enhancing Soft Skills
8. Cisco - Introduction to Cybersecurity
9. IIT Madras Code Rush Finalist Certificate
10. 5 Star Badge in Java
11. 5 Star Badge in SQL
12. 5 Star Badge in Python
13. 3 Star Badge in Problem Solving
14. Semi-Finalist in TechGig Code Gladiators 2024
15. 350+ Problems in Leetcode, 100+ Problems in GeeksforGeeks