

SIDDHARTH SINGH RANA

EDUCATION

Graphic Era Hill University - CGPA: (9.15/10) Bachelor of Technology in Computer Science and Engineering	Dehradun, Indi Aug. 2021 – May 202
St. Joseph's College - Percentage: (88/100) 12th(Indian School Certificate)	Nainital, Indi Aug. 2020 – May 202
. Joseph's College - Percentage: (90/100) th(Indian Certificate of Secondary Education) Nainital, I Aug. 2014 – May 2	
Experience	
Meta(Facebook), Major League Hacking	ber 2023 - December 202 Remote, New York, N
 Attained 100% accuracy by aligning Perl and Python scripts through bash tests and re Created a laser encoder implementation, demonstrating its functionality to users. Eliminated redundancy in Laser Supported Language dictionaries, ensuring accurate l Implemented validation slow test to verify language models' availability and alignmer Fixed key error in LaserEncoderPipeline, ensuring functionality for various languages, 	anguage representation.
Projects	
 The Feedback Loop Chakra UI, React JS, Express, Node JS, MongoDB, Keras, Flask Implemented Multer for secure video upload & JWT for authentication. Analyzed video trends & compared audio/visual elements for insights. Delivered personalized video feedback on strengths & improvement areas. 	
 Telegram Chat Bot for Bank Users MongoDB, Python, Keras, Docker, PyTorch, Matplotlib, 1 Enhanced communication efficiency with Natural Language Processing (NLP), suppor Utilized MongoDB as a secure back-end solution for robust user data management. Deployed as a Docker container to ensure seamless integration and scalability. 	_
 Go Link Tree MongoDB, Golang, React JS, Chakra UI Built high-performance Go backend with JWT for secure, faster login compared to No Implemented user-friendly link management system for easy storage and retrieval. Developed streamlined UI for efficient access to stored links, improving user experiences. 	
 MERN Stack-based Chat Application MongoDB, React JS, Express, Node JS, WebSocket Developed a modern and interactive chat application using the MERN stack. Enabled seamless communication in real-time using websockets, enhancing user expe Implemented secure login standards in Node.js to ensure user security. 	rience.
 Hashtag Finder - API based Instagram Hashtag Finder Express, ReactJs, NodeJs, Axios Employed the Facebook Graph API to gather hashtags from top posts on Instagram. Enhanced content discovery and engagement. 	
 Chrome Extension for Text Summarization using BERT Python, Django, BERT, HTML, C Utilized Google BERT for real-time text summarization, enhancing user productivity. Integrated as a Chrome extension for easy and accessible text summarization. 	SS, JavaScript
 DBMS based Student Management Desktop Application MySQL, Java Swing, Java Developed a desktop application for educational institutions, serving as an informatio Implemented user management and access levels for enhanced data security. 	n portal.

• Designed separate login systems for administrators and users to ensure privacy.

TECHNICAL SKILLS

Languages: Java, Python, Go, SQL, Bash, C/C++, HTML/CSS, JavaScript **Frameworks**: React, NodeJS, Flask, Django, Spring Boot, PyTorch, TensorFlow

Databases: MongoDB, MySQL, PostgreSQL, Oracle DB

Tools & Platforms: Git, Github, Microsoft Azure, Amazon AWS, Docker, Nginx

Other Skills: Linux, NLP, CI/CD, DevOps, Web Sockets

PUBLICATIONS

Deep Learning-Based IoT Malware Detection Using CNN and Transfer Learning: A Comparative Study

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Led IoT malware research using image models like VGG16, achieving 95.6% accuracy and 85% precision. Im- plemented Keras pre-trained models for enhanced image classification. Proficient in IoT security, deep learning, Keras, and Python.

Decoding the Textual Symphony: A Comparative Study of RNN, LSTM, and GRU Architectures for Sequential Text Conducted in-depth research comparing RNN, LSTM, and GRU architectures for sequential text analysis, show-casing expertise in language modeling and sequential data processing.

ACHIEVEMENTS

Coding Competition Success

Achieved the top position in the Code-Chaos competition, organized by IEEE, showcasing exceptional coding skills and abilities.

Coding Proficiency

Demonstrated strong technical skills by completing over 350+ coding challenges on Leetcode and 80+ challenges on GeeksForGeeks.

CERTIFICATES

Git Essential Training: The Basics	in
Google Cloud Foundations	G
Machine Learning, Data Science and Deep Learning with Python	Q ₀
• Learning Docker (2018)	in
Google Cloud Data and Storage Foundations	G
Learning Google Cloud Security	G
Secure coding guide for Developers, Analysts and Architects	₽
Data Structures and Algorithms: Deep Dive Using Java	₽
 Introduction to bug bounty hunting and web application hacking 	⊗