SPERANZA DEEJOE
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EDUCATION

SRM Institute of Science and Technology, Chennai   Sep 2021 – May 2025
Bachelor of Technology (Computer Science Engineering)   9.6 CGPA

PROFESSIONAL EXPERIENCE

Zenanvibe, Chennai   **Dec** 2024 – Present
Tech Advisor and Trainer
- Conducting workshops about the current aspects in the IT-Industry.
- Conducting Guest Lecture For College Students on the Current Trends and technical developments.

Central Leather Research Institute, Chennai   Sep 2024 – Dec 2024
Research Intern (Supply Chain Management)
Dr. S. Nithyananda Vasagam, Senior Principal Scientist
- Research Survey on Industry 4.0 and Industry 5.0 with the focus on supply chains.
- Trained ML Algorithms and activation functions to optimize industrial processes.

NIT Tiruchirapalli, India   Apr 2024 – Sep 2024
Research Intern (ML Research Projects)
Dr. Mohan, Assistant Professor
- Implemented graph-based models for insider threat detection, leveraging advanced machine learning techniques.
- Improved proficiency in Python by fine-tuning machine-learning models for complex data structures.
- Conducted thorough research, analyzed results, and applied theoretical knowledge to practical problems, contributing to the advancement of insider threat detection methods.

GAVS Technologies Pvt. Ltd., Chennai   Aug 2024 – Sep 2024
Intern - SQL -Backend (CINQCARE Projects)
- Gained hands-on experience *SQL*

Archimedis Digital, Chennai   Dec 2023 – Jan 2024
Software Development Intern
- Independently developed and deployed the GEN-AI Automating Risk Factors Chatbot using Python.
- Designed and implemented Natural Language Processing (NLP) techniques, enabling the chatbot to understand and generate human-like responses, enhancing user interaction and automation.
- Tackled challenges related to chatbot functionality and user experience, for an efficient and user-friendly experience.

Code Clause, Remote   Aug 2023 – Sep 2023
Data Science Intern
- Cleaned and analysed Kaggle datasets for Loan Prediction Analysis, effectively handling missing values and applying statistical techniques to extract meaningful insights.
- Built models to determine the likelihood of loan approval based on various features, enhancing accuracy and reliability.

PROJECTS

Graph-Based Machine Learning Model for Insider Threat Detection.   Apr 2024 – Aug 2024
- Developed a machine learning model using graph-based algorithms to detect insider threats within organizational networks, addressing the critical need for enhanced cybersecurity.
- Optimized the model for real-time data processing, enabling quick detection and response to suspicious behaviour.

Malware Analysis.   Aug 2024
- Developed a machine learning model using the Random Forest algorithm to accurately distinguish malicious files from benign ones, emphasizing feature selection and model evaluation.

GEN-AI Automating Risk Factors Chatbot.   Dec 2023 – Jan 2024
- Created a generative AI-powered chatbot to automate risk assessment and documentation, catering to the growing demand for streamlined risk management processes.

- Integrated NLP to ensure smooth, context-aware interactions, significantly reducing manual effort in risk documentation.

Weather Prediction.   Dec 2023
- Developed a predictive model using historical weather data to forecast future weather conditions, leveraging Python and Kaggle datasets.

Census Data Analysis.   Dec 2023
- Created a predictive model to analyze historical census data and forecast future trends, such as sales or disease contraction, through trend analysis and statistical modelling.

RESEARCH & PUBLICATIONS

Assessing the Impact of Automation and AI on Supply Chain   Dec 2024
Resilience from Industry 4.0 to 5.0.
Presented At: National Conference on Recent Trends in Climate Change, Energy and Sustainability
- A survey was conducted to analyze supply chains in the leather industry, comparing their adaptation and performance within the frameworks of Industry 4.0 and Industry 5.0.

Proactive Malware Detection to Secure Web Data Using   Nov 2024
Random Forest Algorithm.
Presented At: National Conference on Recent Trends in Climate Change, Energy and Sustainability
Published In: Publication in progress [UGC Certified Journal]
- Implementing machine learning algorithms for cybersecurity, with a focus on proactive malware detection through Random Forest algorithms.

Unveiling Expressions: Automating Bharatnatyam Mudra Recognition   Mar 2024
Presented At: International Conference on Sustainable Advanced Computing 2024, Christ University, Bangalore
Published In: International Journal of Progressive Research in Engineering Management and Science (IJPREMS)
- Explored the intersection of AI and cultural heritage, focusing on automating the recognition of Bharatnatyam mudras. Through image processing and pattern recognition.

AI Enhanced Movement Detection   Mar 2024
Presented At: International Conference on Recent Trends in Computing and Communication
Published In: International Journal for Multidisciplinary Research
- Focused on developing AI models for precise movement detection, advancing automation and human-computer interaction technologies, through motion analysis and real-time monitoring systems.

Currency Authenticity Verification System   May 2024
Presented At: International Conference ITDECC – 2024, SRM IST
Status: Submitted for publication in a Scopus-indexed journal
- Developed a system for verifying currency authenticity, enhancing the security of financial transactions through computer vision and feature extraction techniques.

Insiders Security Using Graph Analysis   Jul 2024
Published: IJCRT, Volume 12, Issue 7
- Applied Graph Analysis to detect and analyze insider threats.
- Enhanced security by identifying suspicious patterns in network data

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CERTIFICATES AND COURSES

- CHATGPT for Beginners, Great Learning.
- Data Analysis with Python, and Coursera.
- Python - Data Analysis – Real World Hands-On Projects, Udemy.
- Database and SQL for Data Science with Python, Coursera.
- IBM Datathon, IBM.
- Data Science Methodology, Coursera.
- Python for Data Science, AI, and Development, Coursera.
- Introduction to R Programming Language, Eduonix.
- Face Detection with OpenCV in Python, Great Learning.
- Introduction to Cloud Computing, SkillupOnline.
- Introduction to Artificial Intelligence, Great Learning.
- Python Zero to Hero, Udemy.

EXTRA-CURRICULAR ACTIVITIES

- Volunteered for Cultural Event, Texas, SRM University. (Apr 2024)
- Led the Event Planning and Execution of MMYY FIGMA 101 Workshop conducted at SRM University. (Sep 2023)
- Served as the Class Representative to facilitate communication between students and faculty. (Sep 2021 – Dec 2023)
- Member of the Management Team for Tech Pro Club at SRM University (Apr 2023 – present)
- Won the second runner-up position in the "Khelo India" District-level swimming competition (2018)
- Won gold medals in both freestyle and medley relay at CBSE Nationals and Zonals. (2018)
- Trained in Bharatanatyam from the age of 5 and performed in numerous shows during cultural events.
- Served as an NSS Volunteer, participating in cleanliness initiatives, pollution control activities, and blood donation camps.

`TECHNICAL SKILLS

- Expertise: Data Science, Data Mining, Generative AI, Natural Language Processing, Machine Learning,Full Stack Development.
- Programming Languages: C, C ++, Python, CSS,HTML, SQL,MongoDB,R-programming
- Tools and Technologies: Tkinter,Scikit-Learn, Matplotlib, Pandas, NumPy, Seaborn, NLP, PowerBI Basics, VS Code, Jupyter Notebook, Colab, JavaScript, Bard,ChatGPT, Open AI, Microsoft Office