

Immanuel Tirupathi

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Skills

Languages: Python, JavaScript, SQL

Web Technologies: HTML, CSS, JavaScript, Bootstrap, Node JS, React JS, Express JS

Technologies & Tools: PowerBI, Artificial Intelligence(AI), Machine Learning(ML), Cloud Systems, Data Science

Projects

AI Chatbot

Aug 2023

- Designed and developed an AI chatbot leveraging natural language processing (NLP) techniques for dynamic, conversational interactions.
- Implemented machine learning algorithms to enable the chatbot to understand user intent, respond accurately, and improve over time.
- Enhanced user engagement with a 24/7 responsive virtual assistant, reducing wait times and improving customer experience.
- Used frameworks like Node.js for JavaScript-based backend to handle server-side interactions, ensuring smooth communication with the frontend.

Spam Mail Investigation

Oct 2023

- Utilized Kali Linux as the primary environment for performing spam mail investigation, leveraging its suite of cybersecurity tools for digital forensic analysis.
- Conducted link analysis using Maltego to uncover connections between email addresses, domains, and other assets, tracing the origins and network structure of spam sources.
- Contributed to a broader understanding of threat vectors through detailed mapping of spam networks, supporting proactive cybersecurity measures.
- Demonstrated proficiency in digital forensic tools and investigative methodologies, reinforcing skills applicable to real-world cybersecurity challenges.

Dashboard Using Data Analytics

Feb 2024

- Created an interactive dashboard in Power BI, implementing a variety of visualizations to display data insights effectively, including dynamic filtering and drill-down capabilities for in-depth exploration.
- Utilized advanced data analytics techniques to model complex datasets, identifying key performance indicators (KPIs) and trends critical for decision-making.
- Made complex data easily accessible through an intuitive dashboard interface, increasing data literacy among non-technical team members.
- Facilitated alignment with organizational goals by visualizing KPIs and performance metrics, helping drive strategic objectives effectively.

Education & Training

Audisankara Institute of Technology

Oct 2022 - Present

B.Tech in Electronics and Communication Engineering

Relevant Coursework: Circuits and Electronics, Signals and Systems, Digital Logic Design, Microelectronics, Electromagnetic Fields and Waves, Communication Systems, Data Structures and Algorithms, Artificial Intelligence and Machine Learning, Software Engineering

NxtWave

Dec 2022 - Present

Relevant Coursework: Front-end Technologies, Back-end Technologies, Data Science, Object Oriented Programming, Databases, Operating Systems, Computer Networks, Data Structures and Algorithms, Cloud Systems, Artificial Intelligence and Machine Learning, Software Engineering

Awards and Certificates

- **Hackathon:** Led a team in a college hackathon, where we collaborated to develop innovative solutions under tight deadlines.
- Programming with Python by **Hackerrank**
- Java Script Essentials by **Nxtwave**