Swetha Thampi. M

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Education

Vellore Institute of Technology   Bhopal, Madhya Pradesh
Integrated M. Tech in Artificial Intelligence   *Sept. 2022 – May.2027*

Projects

Intrusion detection using RNN | *Python, Tensorflow, XGB*   June 2023- Oct 2023
- Developed a model to detect various network attacks using RNNs
- Enhanced intrusion detection accuracy by training and optimizing the RNN model on NSL-KDD dataset.

Online Payment Fraud detection using ML Algorithms| *Python, XGB, LightGBM*   Jan 2025 – Apr 2025
- Developed a model for online payment fraud detection achieving over 97% accuracy
- Implemented and compared various ML algorithms including XGB and Random Forests to optimize fraud detection and accuracy and minimise false alarms.

Advanced Child Immunization management system| MySQL, React.js, Node.js   July 2024 – Apr 2025
- Designed and implemented a user friendly interface for managing patients and vaccine information.
- Implemented personalised immunization schedules with automated reminders and alerts for upcoming vaccinations.
- Facilitated immunization history and report generation for parents and healthcare providers.

Technical Skills

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R
Frontend Development: React.js, React Router, Bootstrap
Backend and Databases : MongoDB, MySQL, Node.js
Data Visualisation : PowerBI, Tableau

Certifications

IBM AI Professional Certification - IBM	Dec 2023
SQL(Advanced) Certificate – HackerRank	Dec 2024
Career Essentials in Data Analysis by Microsoft and LinkedIn	Jul 2025