

PROJECT IDEATION

I'm Binul Bijo, a Master's student in Information Technology at Deakin University. **"Developing an Intelligent Threat Detection System"** This system develops an intelligent technology which utilises AI methods to detect and handle cybersecurity threats immediately. The system would examine network traffic through machine learning models to detect possible threats which include malware together with phishing attempts and unauthorized access. The system presents itself as essential for organizations that wish to strengthen their security defenses against continually evolving cyber attacks.

Importance:

Security strategies have proven ineffective to match the increasing cyber threats which also become progressively sophisticated. A system using AI can process extensive datasets to learn about new security risks faster than human beings could possibly achieve resulting in better security prevention.

Technologies to be Used:

Node.js & Vanilla JavaScript: For building backend service and also maintaining the server side logic.

HTML & CSS: For creating a user friendly interface which can be used to monitor threats.

MongoDB: For storing and managing data related to security protocols.

Machine Learning Libraries (like TensorFlow or Scikit-learn): The system uses models to detect and classify cybersecurity threats during their development process.