

# Alstin Thomas Abraham

Hyderabad, Telangana, India | +91 6281679508 | [alstin0304@gmail.com](mailto:alstin0304@gmail.com) | [LinkedIn](#) | [GitHub](#)

## Education

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**VIT Bhopal University, Madhya Pradesh**

Integrated MTech (Specialization in Cyber Security)

CGPA: 8.56/10

Expected Graduation: 2027

## Technical Skills

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- **Programming Languages:** Python, Java, SQL, C++
- **Web Development:** HTML, CSS, React, Flask
- **Frameworks & Tools:** Linux, MySQL, Docker, Microsoft Office
- **Interests:** Cyber Security, Ethical Hacking, VAPT, Computer Networking, Web Application Security

## Projects

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- **SOAR Security Automation and Incident Response Platform**
  - Developed an automated (SOAR) platform to streamline incident detection and response. The platform integrates AWS EC2 instances for automated virtual machine-based testing and threat detection.
  - Designed a playbook to detect and neutralize lazagne.exe threats, with Lima Charlie handling real-time endpoint detection and Tines orchestrating the automated response. This includes critical actions like VM isolation, malicious IP blocking, and real-time alerting via Slack.
  - **Technologies:** AWS EC2 instances, Tines, Lima Charlie, Slack, Python, REST APIs
- **SMS – Email Spam Detection Web Application**
  - Developed a full-stack web application that classifies incoming Email and SMS messages as spam or legitimate using machine learning models.
  - Integrated pre-trained NLP models into a Flask backend with MongoDB, enabling secure user authentication and real-time spam classification through a user-friendly web interface.
  - **Technologies:** Python, Flask, Scikit-learn, MongoDB, HTML/CSS, JavaScript, NLP

## Research

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- **Enhancing Indian Agriculture using Information Theory and Artificial Intelligence**

Conducted a research project on enhancing Indian agriculture. The study focused on using entropy-based methods to measure uncertainty in environmental data and applied machine learning models to predict crop yield, recommend suitable crops, and optimize resource usage. By leveraging real-time data and satellite inputs, the project aimed to support climate-resilient and data-driven farming practices across India.

## Co-Curricular

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- **Participated in several technical hackathons**, enhancing skills in rapid prototyping, problem-solving, and team collaboration.

## Extra-curricular

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- **Event Management Lead in College:** Played major role in planning and execution of several campus events as the coordinator, overseeing end-to-end logistics, team coordination to ensure smooth and successful outcomes.
- **Student Captain, School:** Served as the lead student representative, leading inter-house activities, academic coordination, and discipline management while developing teamwork, responsibility, and positive mindset.

## Languages

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- English (Fluent), Hindi (Fluent), Telugu (Fluent), Malayalam (Fluent), Tamil (Conversational)