

Amulya Medhineni

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Summary

Final-year B.Tech Computer Science student with strong focus on **Cybersecurity, Linux, Machine Learning**, and **AI Applications**. Experienced in building deep learning models, web applications, and Zero Trust systems. Proficient in **Python, Flask, TensorFlow, Tailwind CSS, Java Spring Boot**. Passionate about leveraging technology to build secure and impactful solutions.

Skills

Languages: Python, Java, HTML, CSS

Frameworks: Flask, Java Spring Boot

Libraries: NumPy, Pandas, Scikit-learn

Specialties: Cybersecurity, Linux, Deep Learning, Image Processing , It Data Security , Applications Of Data Security

Tools: Google Colab VS Code

Education

B.Tech in Computer Science and Engineering 2022 – 2026

Kalasalingam Academy of Research and Education — CGPA: 8.53/10

Class XII – AP Board 2020 – 2022

Oxford VIT Junior College — Percentage: 94.2%

Class X – AP Board 2019 – 2020

Mana Bala Bharathi School — Marks: 584/600

Projects

TrustGate – Zero Trust Network Access System [GitHub]

Tools: Flask, Python, Tailwind CSS, pyotp, qrcode

- Developed an MFA-secured authentication system with QR-based OTP and device registration.
- Integrated IP geolocation, activity logs, and dynamic dashboards with responsive Tailwind UI.
- Used JSON-based storage for user, log, and device management without SQL.

Deepfake Detection System [GitHub]

Tools: Python, OpenCV, ResNet, LSTM

- Built a hybrid model using ResNet and LSTM to detect temporal inconsistencies in video.
- Improved accuracy by integrating spatial and temporal deep features.

Brain Tumor Classification [GitHub]

Tools: TensorFlow, CNN, Python, Keras

- Achieved 90%+ accuracy in identifying tumors from MRI scans using CNN.
- Applied data augmentation and preprocessing to boost model generalization.

Achievements

2nd Place – National Hackathon, Thiagarajar College

Led ML pipeline and frontend integration under time constraints.

Member – ACM Women's Chapter 2024 - 2025 – Present

Engaged in tech events, workshops, and collaborative discussions , and open-source initiatives.

Certifications

Oracle Cloud Infrastructure AI Certified Foundations Associate

Ethical Hacker – Cisco