

Joanathan Packia Singh

B.Tech Computer Science & Engineering (Artificial Intelligence)

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EDUCATION

Saveetha Institute of Medical and Technical Sciences (SIMATS)

Chennai, India

B.Tech Computer Science and Engineering (Artificial Intelligence)

2024 – 2028

TECHNICAL SKILLS

Languages: Python, Java, C/C++, JavaScript

Web: HTML, CSS, JavaScript, Node.js, REST APIs

Machine Learning: NumPy, Pandas, Scikit-learn, OpenCV

Databases: MongoDB, MySQL, PostgreSQL

Tools: Git, GitHub, Linux, VS Code, Vercel

Concepts: Data Structures, Algorithms, Object-Oriented Programming, Software Engineering

PROJECTS

FundMeUp | *Crowdfunding Web Application — HTML, CSS, JavaScript, Node.js*

GitHub | Live

- Developed a crowdfunding platform allowing users to create, manage, and browse fundraising campaigns.
- Implemented user authentication, campaign management, and contribution workflows.
- Integrated frontend components with backend APIs and database services.

Farmzy | *Smart Agriculture Platform — Python*

GitHub

- Developed a platform connecting farmers and consumers through a digital marketplace.
- Implemented product listings, user management, and order workflow features.
- Designed the system to support future integration of data-driven agricultural recommendations.

AlienBuster | *Environmental Monitoring Platform — Python, NDVI*

GitHub | Live

- Developed a web platform for reporting geo-tagged invasive plant species.
- Integrated NDVI analysis with Sentinel-2 satellite imagery to identify vegetation anomalies.
- Built backend data processing pipelines and automated environmental monitoring workflows.

EXPERIENCE

Artificial Intelligence & Machine Learning Intern

Aug 2025 – Oct 2025

Innovate Intern

- Developed a pedestrian detection system using Histogram of Oriented Gradients (HOG) and OpenCV in Python.
- Implemented preprocessing, feature extraction, and model evaluation pipelines for computer vision tasks.
- Worked on Python-based machine learning workflows for detection and performance evaluation.

ACHIEVEMENTS & HACKATHONS

Winner – Next Gen Product Buildathon (SQ1 Security & AI Geeks)

2025

- Won the hackathon by developing **Farmzy**, a smart agriculture platform with an integrated marketplace for real-time farm monitoring and data-driven decision support.

Hackforge Hackathon (DDGDVC)

2025

- Reached the finals with an AI-based automated attendance trigger system using ESP32, computer vision, and cloud technologies.
- Secured a Top 5 finish with **Farmzy**, a smart agriculture and B2C marketplace platform.

Gen AI Exchange Hackathon – Google Cloud x Hack2Skill

2025

- Developed *Game Mood AI*, a generative AI-powered game recommendation system based on user mood.

CERTIFICATIONS

NPTEL – Statistical Learning for Reliability Analysis

2025

NPTEL – Introduction To Internet Of Things

2026

NPTEL – Social Networks

2026