

Yashvardhan Thanvi

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Education

Birla Institute of Technology, Mesra – Jaipur Campus

Bachelor of Computer Applications (BCA), Computer Science; Minor in Artificial Intelligence
(Expected)

Jaipur, India

Aug 2024 – May 2027

- CGPA: **9.35/10.0**; coursework includes Data Structures & Algorithms, OOP, Operating Systems, DBMS, Computer Networks, and Software Design & Architecture.

Experience

Scientific Analysis Group (SAG), DRDO, Ministry of Defence

AI/ML & Software Research Intern

New Delhi, India

May 2026 – Jul 2026

- Completed a 3-month AI/ML research internship spanning RAG and software-defined radio systems; developed offline retrieval and policy-compliant configuration synthesis/validation prototypes and supported signal-analysis work on intermittent jamming and out-of-band spectral behavior.

Olinp Technologies Pvt. Ltd.

AI/ML Engineering Intern

Remote

Apr 2025 – Jun 2025

- Refactored preprocessing and feature-engineering pipelines across 3+ production modules and deployed optimized ML services through Flask/Streamlit REST interfaces, improving reliability and inference efficiency.

Projects

LLMSlim – Open-Source LLM Context Infrastructure | Python, RAG, MCP

Website | GitHub | PyPI

- Built and published a Python library for extractive, rewrite, and hybrid LLM-context compression using semantic/hybrid chunking, TF-IDF/LexRank ranking, and instruction/entity preservation; reduces prompt size by roughly **40–70%** while retaining key signal.
- Expanded v0.4.0 for agent/MCP workflows with provider-aware normalization, canonical JSON, SHA-256 fingerprints, exact contract checks, and evaluation across **375 schemas / 18 catalogs**; added OpenAI Agents SDK integration. Selected for the **Sarvam Startup Program**; reached **Product Hunt daily rank #11**.

Krishyak – AI Farmer Decision Support Platform | FastAPI, React, TensorFlow/Keras, ML

Live Demo |

GitHub

- Built a full-stack decision platform for Indian farmers combining yield/risk estimation, price forecasting, government-scheme matching, fertilizer guidance, voice input, and Monte Carlo what-if simulations across **100–2,000 scenarios**; supports **13 Indian languages**.
- Trained a MobileNetV2-based **42-class** plant-disease classifier on approximately **70K images**, achieving **95.2% test accuracy** (F1 0.94); integrated crop-aware treatment and prevention recommendations into the live platform.

Technical Skills

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

AI/ML: PyTorch, TensorFlow/Keras, Scikit-learn, Hugging Face Transformers, Sentence Transformers, RAG, NLP, Computer Vision, Transfer Learning, LangChain

Backend & Systems: FastAPI, Flask, REST APIs, Docker, Git, Linux, ChromaDB, GNU Radio, Model Context Protocol (MCP), OpenAI Agents SDK, React

Achievements & Leadership

- **Winning Team, Smart India Hackathon (SIH) 2026 Internal Hackathon, BIT Jaipur**; nominated by the college for the next round. **State Rank 1, VBYLD 2026**; represented Rajasthan nationally and presented Krishyak to the Union Agriculture Minister and DG, ICAR.
- Completed the **AWS Student Builder Campus Leader** program; now an **AWS Student Builder Group Leader**. Previously a **Google Gemini Student Ambassador**; led 8+ AI/cloud workshops reaching 200+ students.
- **Head Coordinator, IIC Innovation Subcommittee, BIT Jaipur**; organized the 46-team SIH 2026 internal hackathon. Also selected as a **GitHub Campus Expert** and **GeeksforGeeks Campus Mantri**.
- **Global Finalist Nominee, NASA Space Apps Challenge 2025 | 1st Prize, IETE Software Design Competition 2025 | HackerRank 5-Star Python**.