

Harshit Shukla

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EDUCATION

VIT Bhopal University, Bhopal, MP

Expected June 2026

B.Tech in Computer Science Core Engineering

GPA: 8.16 / 10

Maharshi Patanjali Vidya Mandir, Prayagraj, UP

12th CBSE: 92%

June 2021

10th CBSE: 91.4%

June 2019

PROJECTS

Chickpea Anomaly Detection — Computer Vision Project

Aug 2023 – Nov 2023

github.com/harshit110927/Chickpea-Anomaly

Aimed to automate visual quality grading for agricultural produce using deep learning.

- Engineered a YOLOv7-Tiny deep learning pipeline trained on 20,000+ annotated images to classify chickpeas into 7 quality grades.
- Achieved 96.4% classification accuracy, improving quality control efficiency by 40%.
- Devised optimized preprocessing with OpenCV and PyTorch, reducing training time by 25%.

Solar Panel Efficiency Prediction — Zelestra ML Hackathon

Jan 2025

github.com/harshit110927/Zelestra-Hackathon

A machine learning model to forecast solar panel efficiency based on weather and sensor data.

- Processed a 20,000-row dataset; engineered predictive features from weather and panel data.
- Achieved 0.0996 RMSE using XGBoost and CatBoost models optimized via Optuna and GridSearchCV.
- Ranked in the Top-30 out of 500+ teams with a public leaderboard score of 89.89.
- Reduced feature space from 17 to 11 using correlation matrix analysis and domain-specific transformations.

Symptom Checker API — Personal Project, Remote

Dec 2023

github.com/harshit110927/SYMPATOM-CHECKER-API

Developed a scalable health prediction API combining rule-based logic with generative models.

- Built a Flask REST API predicting 40+ diseases from 130+ symptoms using a Decision Tree Classifier with 95%+ accuracy.
- Integrated GPT-3.5 for contextual symptom interpretation and intelligent follow-up prompts.
- Processed 300+ test API calls via Ngrok; documented endpoints for modular integration and usability.

EXPERIENCE & EXTRACURRICULAR

Artificial Intelligence Club, VIT Bhopal

Feb 2023 – Mar 2025

Core Member & PR Lead

- Led outreach and sponsorship for 7+ AI-driven events, including university-wide hackathons and technical bootcamps.
- Facilitated AI Club's participation in flagship exhibitions and hosted 10+ expert sessions across ML, NLP, and vision domains.
- Expanded the club's community base by 60%, growing from 100 to 160+ members.
- Supervised a 10-member team for cross-department coordination, content delivery, and execution.

TECHNICAL SKILLS

Languages: Python, C++, JavaScript

Web: HTML, CSS, React.js, Node.js, Express.js, MongoDB, MySQL, JWT, REST APIs, Postman

Machine Learning: Scikit-learn, XGBoost, CatBoost, TensorFlow, PyTorch, YOLO, OpenCV, OpenAI API

CS Concepts: Data Structures, Algorithms, Operating Systems, DBMS, Computer Networks

Tools: Git, GitHub, VS Code, Jupyter, MongoDB Compass, Visual Studio

Practices: Agile Development, Git Workflow, CI/CD (Basics)

Soft Skills: Public speaking, collaboration, leadership

CERTIFICATIONS

- MERN Full-Stack Developer – ETHNUS *Mar 2025*
- IBM Blockchain Developer Certificate – IBM CEP *Apr 2025*
- IBM AI Engineering Professional Certificate (Coursera) *Dec 2023*
- Convolutional Neural Networks in TensorFlow (DeepLearning.AI) *Jun 2023*

SUMMARY

Computer Science undergraduate skilled in machine learning, full-stack development, and scalable API design. Proven success in real-world AI challenges, hackathons, production-ready deployments, and solving impactful problems.