

DIVYANSHU PRAKASH

 [Codeforces](#)  [Codechef](#)  [Leetcode](#)  [Github](#)

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Education

Indian Institute Of Technology (IIT), Bhilai

B.Tech(Honors)-Mechatronics Engg. (Minor- Computer Science Engg)

CGPA - 8.75

October 2022 - May 2026

R.P.S. School, Nalanda, Bihar, India

Senior Secondary Education

Grade - 92%

May 2020 - April 2022

Technical Skills

Languages: C++ (Proficient), Python(Proficient), C, Javascript, SQL

Web Stack: React.js, Node.js, Express.js, Tailwind, Bootstrap, MongoDB, PostgreSQL, Figma

ML/AI: NumPy, Pandas, Matplotlib, Scikit learn, OpenCV, Computer Vision

Developer Tools: Git, Docker, Linux, VS Code

Core Skills: Data Structures and Algorithms, Machine Learning, Deep Learning, Object-Oriented Programming (OOP)

Internship


AI/ML Intern - IBITF IIT Bhilai — [Certificate](#)

May 2024 – July 2024

- **Project: Automated System for Recognition and Packaging of Purchase Items (Fruits and Vegetables).**
- Developed a **computer vision framework** for automated recognition of **50+ fruit and vegetable types**, enhancing **retail automation, customer engagement, and checkout efficiency** in grocery stores.
- Utilized **SAM AI and DINO AI** for dataset segmentation and labeling, followed by annotation in **Roboflow**. Trained a **YOLOv8 deep learning model**, achieving **85% accuracy** in real-time object recognition.
- Designed an **interactive GUI** using **Python Tkinter**, integrating **hardware components** like a **weight machine for automated price calculation** and a **receipt printer for transaction output**.
- Implemented a **MySQL database** for transaction tracking, ensuring **data integrity, efficient query processing, and seamless integration** with the system for optimized performance.


Projects

Krishi AI: Precision Agriculture for Plant Health | *Python, Pytorch, YOLO-v11*

Deployment  [GitHub](#)


- Constructed a Deep Learning Model: Built a plant disease detection system Fine-Tuning YOLOv11 on custom dataset.
- Leveraged the novel DFN (Deep Fusion Network) architecture to enhance feature extraction and classification.
- Processed 26 GB plant dataset for training, ensuring robust model performance across diverse environmental conditions.
- Achieved 99.14% accuracy, closely matching state-of-the-art results (99.6%) from recent research.

Sci-Tech Website | *ExpressJS, ReactJS, NodeJS*

Deployment  [GitHub](#)


- Engineered a Scitech website for IIT Bhilai clubs, facilitating smooth online registrations and providing real-time activity updates to over 200 participants weekly while enhancing user engagement by simplifying the process.
- Created a modular design system that streamlined the development process, reducing coding time by 30% and enabling faster updates, ultimately equipping over 15 developers with consistent design components for enhanced efficiency.

Flamingo News | *ReactJS, API*

Deployment  [GitHub](#)

- Built a dynamic React.js news app with [Newsapi](#), optimizing API fetching and state management for 50% faster load times and improved user experience.

Achievements and Activities

- **Specialist(1569)** rated at Codeforces.
- Achieved a **3-star (1717)** rating, ranking in the top 0.86% of active users in India on Codechef.
- Team Leader in Inter IIT Tech Meet 2024, Mid Prep 1 (Dream 11 ML model prediction)
- Participated in Dark Pattern Buster Hackathon 2023 - (**Certificate** )
- Secured 4th rank in the Ingenuity Individual Programming Contest at the college level.

Leadership / Extracurricular

Team Leader | *Mid Prep 1, Inter IIT Tech Meet 2024*

Dec 2024

- Led a team of 6 to develop a Dream11 solution, engineered GRU & XGBoost models (95% accuracy), and crafted React-Flask UIs for model insights and live predictions.

Core Member | *Ingenuity, Competitive Programming Club*

May 2024 - Present

- Led a bit manipulation workshop (50+ students, 90% satisfaction), mentored 200+ in Competitive Programming, and organized 10+ workshops/contests to foster CP culture.

Core Member | *Openlake, Opensource Development Club*

May 2024 – August 2024