Divyanshu Prakash

📊 Codeforces   👨‍🍳 Codechef   ⚔ Leetcode   🐙 Github
in LinkedIn   📞 +91-6206393717   🌐 Website   ✉ divyanshup@iitbhilai.ac.in

Education

Indian Institute Of Technology (IIT), Bhilai   **CGPA - 8.75**
*B.Tech(**Honors**)-Mechatronics Engg. (**Minor- Computer Science Engg**)*   *October 2022 - May 2026*

R.P.S. School, Nalanda, Bihar, India   **Grade - 92%**
Senior Secondary Education   *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 & Algorithms, Machine Learning, Deep Learning, OOP
Management Skills: Project Planning, Teamwork, Task Management, Problem-Solving, Decision Making

Internship

AI/ML Intern - IBITF IIT Bhilai — Certificate   **May 2024 – July 2024**
- **Project: Automated System for Recognition and Packaging of Purchase Items (Fruits & Vegetables).**
- Led the end-to-end development of a **computer vision system** for automated recognition of **50+ fruit and vegetable types**, enhancing **retail automation and checkout efficiency**. Delivered a fully functional system in **2 months**.
- Managed dataset segmentation using **SAM AI and DINO AI**, annotation via **Roboflow**, and trained a **YOLOv8 model** with **85% accuracy**.
- Developed an **interactive GUI** with **Python Tkinter**, integrating a **weight sensor for price calculation** and a **receipt printer**.
- Designed and optimized a **MySQL database** for transaction tracking, ensuring **seamless integration** and **efficient data processing**.

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, Open Source Development Club*   **May 2024 – August 2024**
- Contributed to multiple open-source projects, reviewed PRs, and mentored new contributors in Git, GitHub, and full-stack development.

Member | *Epsilon Robotics Club*   **Sep 2022 – May 2023**
- Worked on autonomous robotics projects, developed ROS-based navigation, and contributed to inter-college robotics challenges.

Member | *FPS Club (Film Production Society)*   **Sep 2022 – May 2023**
- Directed and edited short films, managed cinematography, and organized workshops on storytelling and video editing.

Projects

Krishi AI: Precision Agriculture for Plant Health | *Python, PyTorch, YOLOv11*   **Deployment   🐙 GitHub**
- Developed a plant disease detection model by fine-tuning **YOLOv11** on a custom dataset.
- Integrated **Deep Fusion Network (DFN)** for improved feature extraction and classification.
- Processed **26GB** of plant data, ensuring robustness across diverse environments.
- Achieved **99.14% accuracy**, closely matching state-of-the-art research (99.6%).

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.