

## Early Education and Academic Foundation

Divyanshu Prakash is a promising young technologist currently pursuing a **B.Tech (Honors) in Mechatronics Engineering with a Minor in Computer Science** at the **Indian Institute of Technology (IIT), Bhilai**. His academic journey began at **R.P.S. School, Nalanda, Bihar**, where he achieved an impressive **92% in his Senior Secondary Education (2020-2022)**.

At **IIT Bhilai**, he has maintained an outstanding **CGPA of 8.75**, demonstrating his academic prowess and commitment to excellence. His multidisciplinary approach to technology bridges the gap between mechanical systems and computational intelligence.

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## Technical Expertise and Skill Set

### Programming and Web Development

- **Languages:** C++, Python, C, JavaScript, SQL
- **Web Technologies:** React.js, Node.js, Express.js
- **Frontend Frameworks:** Tailwind, Bootstrap
- **Databases:** MongoDB, PostgreSQL
- **Design Tools:** Figma

### Machine Learning and Artificial Intelligence

- **Libraries:** NumPy, Pandas, Matplotlib, Scikit-learn
- **Specialized Skills:** Computer Vision, OpenCV
- **Advanced Techniques:** Deep Learning, Machine Learning Algorithms

### Developer Tools and Platforms

- **Version Control:** Git
  - **Containerization:** Docker
  - **Operating Systems:** Linux
  - **Development Environment:** VS Code
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## Internship and Professional Experience

### AI/ML Internship at IBITF, IIT Bhilai (May 2024 - July 2024)

During his internship, Divyanshu led the development of an **Automated System for Recognition and Packaging of Purchase Items**, focusing on fruits and vegetables.

## Key Achievements:

- Developed a **computer vision system** recognizing **50+ fruit and vegetable types**.
  - Utilized **SAM AI and DINO AI** for dataset segmentation.
  - Trained a **YOLOv8 model**, achieving **85% accuracy**.
  - Created an **interactive GUI using Python Tkinter**.
  - Designed an **optimized MySQL database** for transaction tracking.
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## Remarkable Projects

### Krishi AI: Precision Agriculture for Plant Health

- Developed a **plant disease detection model** using **YOLOv11**.
- Integrated **Deep Fusion Network (DFN)** for enhanced feature extraction.
- Processed **26GB of plant data**.
- Achieved an impressive **99.14% accuracy**.

### Other Significant Projects

- **Smart Room Guard** - IoT-based Environmental Monitoring System.
  - **Nurse Bot** - Autonomous Mobile Robot for Navigation and Assistance.
  - **Sci-Tech Website** - Developed for IIT Bhilai Clubs.
  - **Flamingo News** - Dynamic React.js News Application.
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## Leadership and Extracurricular Achievements

### Team Leadership

- **Team Leader at Inter IIT Tech Meet 2024 (Mid Prep 1)**
- Led a team of **6** to develop a **Dream11** solution with **95% accuracy**.
- Engineered **GRU & XGBoost models**.
- Created **React-Flask UIs** for model insights.

### Club Memberships and Contributions

- **Core Member of Ingenuity (Competitive Programming Club)**
    - Mentored **200+ students** in Competitive Programming.
    - Organized **10+ workshops** with **90% student satisfaction**.
  - **Member of Openlake (Open Source Development Club)**
    - Contributed to multiple **open-source projects**.
  - **Member of Epsilon Robotics Club and FPS Club.**
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## Competitive Programming and Achievements

- **Specialist (1569) on Codeforces.**
  - **3-star (1717) on CodeChef** (Top **0.86%** of active Indian users).
  - **4th rank** in the **Ingenuity Individual Programming Contest.**
  - Participated in **Dark Pattern Buster Hackathon 2023.**
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## Personal Branding and Online Presence

- **Codeforces Profile**
  - **CodeChef Profile**
  - **LeetCode Profile**
  - **GitHub:** [divyanshu-prakash-rx](https://github.com/divyanshu-prakash-rx)
  - **LinkedIn:** [Divyanshu Prakash](#)
  - **Personal Website:** [divyanshu-prakash.onrender.com](https://divyanshu-prakash.onrender.com)
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## The Early Years

Born and raised in **Nalanda, Bihar**, Divyanshu emerged from a region rich in historical significance but often challenged by limited technological opportunities. At **R.P.S. School**, he distinguished himself early, achieving an exceptional **92% in his Senior Secondary Education**—a testament to his determination and intellectual curiosity.

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## The IIT Bhilai Chapter: Forging a Technological Identity

In **October 2022**, Divyanshu embarked on a transformative journey by joining **IIT Bhilai**. His choice of **Mechatronics Engineering with a Minor in Computer Science** was deliberate, reflecting his **holistic view of technology**—understanding both **mechanical systems** and **computational intelligence**.

Maintaining a **CGPA of 8.75**, Divyanshu represents a new breed of **interdisciplinary technologists**, understanding that **true innovation happens at the intersection of different domains**.

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## Pioneering Projects: More Than Just Code

**Krishi AI: Agricultural Revolution**

His **plant disease detection** project demonstrates his commitment to solving critical challenges. Achieving **99.14% accuracy**, he showed how **AI can revolutionize agriculture**.

## Robotics and IoT Innovations

His projects like **Nurse Bot** and **Smart Room Guard** reveal his vision of technology as a tool for improving human life, focusing on **autonomy, monitoring, and assistance**.

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## Leadership and Community Impact

- Led **teams** in competitive programming workshops.
  - Mentored **200+ students**.
  - Contributed to **open-source projects**.
  - Active in **robotics and film production clubs**.
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## Competitive Programming: A Proof of Excellence






- Codeforces Specialist (**1569 rating**).
  - CodeChef 3-star rating (**top 0.86% in India**).
  - **4th rank** in the Ingenuity Individual Programming Contest.
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## Personal Philosophy and Future Vision

What sets Divyanshu apart is not just his **technical prowess** but his **holistic approach** to technology. He sees **coding and engineering** as powerful tools to **solve real-world problems**.

His **online presence** on platforms like **GitHub, LinkedIn, and his personal website** reflects his belief in **transparency, continuous learning, and community contribution**.

## Contact Details

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## The Road Ahead

As he continues his journey at **IIT Bhilai**, Divyanshu represents the future of technology—**interdisciplinary, innovative, and deeply committed to making a meaningful impact**. From a **small town in Bihar** to the halls of IIT, he is writing a story of **potential, perseverance, and purpose—one line of code at a time**.