

# Pankh Bansal

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## EDUCATION

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### Vellore Institute of Technology

Bhopal, MP

*B.Tech in Computer Science and Engineering with spec. in Health Informatics – 8.74 CGPA* September 2022 – July 2026

### DPS Vasant Kunj

Vasant Kunj, New Delhi

*Class XII – 96.6%*

*April 2020 – May 2021*

*Class X – 98.2%*

*April 2018 – May 2019*

## TECHNICAL SKILLS

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Java, Python, JavaScript, HTML, CSS, React.js, TensorFlow basics, MySQL, MongoDB, Excel

## CERTIFICATES

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- Fundamentals of AI and ML, Vityarthi — *May 2023*
- HTML, CSS, and Javascript for Web Developers, Coursera — *December 2023*
- **Gold medal** for Academic Excellence for 7 consecutive years in DPS Vasant Kunj among 2000 students
- DELF **A2-level** Certification in **French**.

## PROJECTS

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### Breast Cancer Prediction and Detection Model | *Python, PyCharm, Kandi,* September 2023 – October 2023

- Integrated Kandi Software along with Python to design the model to provide more accuracy than previous models for breast cancer detection.
- Final model showed 93% accuracy after the manual input of user's medical test information and characterised the breast tumor as benign or malignant.

### Road Traffic Monitoring and Detection | *Python, Computer Vision, YOLO Algorithm* January 2024 - March 2024

- Implemented vehicle detection and analysis by YOLO algorithm specialized in object detection, box coordinates used from images or videos captured by traffic-monitoring cameras counted the vehicle number and type.
- Integrated neural networks with LSTM and GRU to evaluate performance, visualize traffic flow based on historical data and final analysis provided using data visualization.

## EXTRACURRICULAR and ACHIEVEMENTS

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- Solved **90+** questions on **LeetCode** as of 2<sup>nd</sup> February 2024, actively practicing **Data Structures and Algorithms**.
- **Core Member, PR and Outreach** – Vitronix Club (*IoT, Robotics, Autonomous Systems*)
- **Core Member, Content Team** – Null Student Chapter (*Cybersecurity, Blockchain, Awareness Initiatives*)
- **Other Interests:** Reading (Tech & Fiction), Dancing, Singing, Basketball, Badminton
- **Soft Skills:** Time Management, Teamwork, Problem-solving, Attention to details, Engaging Presentation, Knowledge Transfers.
- Participated in **SIH (Smart India Hackathon) 2024**, cleared 1<sup>st</sup> internal round and partially implemented a federated learning model, model was appreciated by the judges.
- Participated in **HackerRank 2024** hackathon (Domain: Fintech to create a smart digital wallet with a new authentication).