

## OBJECTIVE

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Passionate about AI & Machine Learning to drive positive societal impact. My interests span across but not limited to diverse domains of Computer Networks, Operating System, DSA, Distributed Computing, (RESTful) API Development, Data Analytics, Deep Learning, Machine Learning, Computer Vision and App Development. LeetCode 150+

## SKILLS

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|----------|----------------------|-------------|
| ○ Python | ○ TensorFlow/PyTorch | ○ SQL/NoSQL |
| ○ C/C++  | ○ Flutter/Dart       | ○ Java, JSP |

## WORK EXPERIENCE

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### Intern, Indian Space Research Organization (ISRO), Sriharikota

December 2024 — January 2025

Worked in Range Operations at ISRO, I developed and updated Last Pay Certificates, expanding the format from 2 to 7 pages. This involved utilizing Java iText to generate PDFs by retrieving data from a Sybase server via a Tomcat server, ensuring efficient and accurate document processing.

### AI Development and Integration Intern, KHUSHI.you, Bengaluru

August 2024 — October 2024

Responsible for development, integration and scaling of a deep neural network based chatbot for mental health, customer support, and payment support within the company's Flutter app.

## EDUCATION

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### Manipal Institute of Technology, Bengaluru

July 2022 — May 2026

B.tech. Information Technology – CGPA 8.84

### Vishwa Bharati Public School, Noida

April 2014 — July 2022

CBSE 12th – 85.0 %    CBSE 10th – 93.2 %

## PROJECTS

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- **RailwayOps** – Made a desktop app for managing, automating and safeguarding railway operations. Integrating train scheduling, locomotive and coach allocation, real-time status tracking and automatic signaling. Along with features for planning and execution to completely digitalize railway operation. Optimized backend performance using MySQL and JavaFX. [Link](#)
- **ADPMS** – Detect real-time Pollution through Drones using ML and Computer Vision. Project was displayed on Intel AI Global Impact Festival, 2021 website and won Raspberry pi Foundation's Coolest Projects.org, 2021 India Winner and Judge's Favorite. [Link](#)
- **Climate Change Home Tracker** – webapp to create awareness among users of their carbon footprint and emissions, predicting water level rise and global surface temperature rise. [Link](#)
- **Defect Detection** - Interdisciplinary Deep Learning Model Optimization research on identifying defects in stl files that were modified by hackers. Solving two major challenges of imbalanced datasets and retraining deep learning model with more data in new classes, enhancing the framework's accuracy and reliability. Lead team of 3 students, working along IIT Mandi professor.