

OBJECTIVE

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, Deep Learning, NLP, Computer Vision and App Development.

SKILLS

- | | | |
|----------|--------------------------------|-------------------------|
| ◦ Python | ◦ Tensorflow/Keras | ◦ MySQL/Oracle Database |
| ◦ C | ◦ Data Structures & Algorithms | ◦ Operating System |
| ◦ Java | ◦ Computer Vision / NLP | ◦ Flutter/Dart |

WORK EXPERIENCE

Intern, Indian Space Research Organisation (ISRO)

December 2024 – January 2025

Upcoming winter Intern at Satish Dhawan Space Center, Sriharikota, ISRO.

AI Development and Integration Intern, KHUSHI.you wellness Tech

August 2024 – September 2024

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

Deep Learning Researcher working on Object Detection

September 2023 – Present

Interdisciplinary 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 college and IIT Mandi professor.

EDUCATION

Manipal Institute of Technology, Bengaluru Campus

July 2022 - May 2026

B.tech. (Hons.) Information Technology – CGPA 8.82

Vishwa Bharati Public School, Noida

April 2014 - July 2022

CBSE 12th – 85.0% CBSE 10th – 93.2%

PROJECTS

- **Book Chapter on using Federated Learning in Healthcare Information Systems** - Lead a team of 4 people to publish a 12,000 word book chapter on federated learning for Springer. Currently in Peer review. [Link](#)
- **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. Used MySQL for database and JavaFX for GUI. [Link](#)
- **Open-Source Machine Learning for All** – Simplifies machine learning model training for users eliminating the need for manual installation of libraries so users can start training custom AI models. Just drop your data in preset folders and start training a pretrained model from Tensorflow Model Zoo, no need to setup machine. (under development)
- **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](#)

POSITION OF RESPONSIBILITY

Member, College Placement Committee

August, 2024 – Present

Coordinated with companies and recruiters to facilitate campus placements, helping students secure internships and job opportunities.

ONLINE CERTIFICATIONS

- Object-Oriented Hierarchies in Java Object-Oriented Hierarchies in Java (Coursera-LearnQuest)
- Introduction to Object-Oriented Programming with Java (Coursera-LearnQuest)
- Digital Systems: From Logic Gates to Processors (Coursera- Universitat Autònoma de Barcelona)
- Advanced Algorithms and Complexity (Coursera- UC San Diego)
- ORACLE SQL Databases (Coursera-LearnQuest)
- Wireshark for Beginners: TCP IP Protocol Fundamentals (Coursera-Project Network)
- Cisco CCNA Certified: Introduction to Networks
- Deep Learning (4 Courses) by DeepLearning.AI

PROFILE

- GitHub - <https://github.com/arnavsuman>
- YouTube - <https://www.youtube.com/@arnavsuman3356/featured>
- LinkedIn - <https://www.linkedin.com/in/arnav-suman/>
- LeetCode - <https://leetcode.com/u/ArnavSuman07/>

REFERENCES

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