

OBJECTIVE

Passionate about AI/Machine Learning to drive positive societal impact. My interests span across but not limited to diverse domains of Deep Learning, NLP, Computer Vision, and App Development.

SKILLS

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

WORK EXPERIENCE

AI Development and Integration Intern, KHUSHI.you wellness Tech

August 2024 – October 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.

Book Chapter on using Federated Learning in Healthcare Information Systems

May 2024 – July 2024

- Lead a team of 4 people to publish a 12,000 word book chapter on federated learning for Springer. Currently in Peer review.

AI Researcher working on Object Detection

Sep 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 without complete retraining, enhancing the framework's accuracy and reliability.

EDUCATION

Manipal Institute of Technology, Bengaluru Campus

Sep 2022 - May 2026

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

Vishwa Bharati Public School, Noida

April 2014 - July 2022

CBSE 12th – Percentage- 85.0%

CBSE 10th – Percentage- 93.2%

PROJECTS

- **ADPMS** – Detect real-time Pollution through Drones using Machine Learning and Computer Vision.
- **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 in next 50 years. [Link](#)
- **RailwayOps** – Made a desktop app for managing 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.
- **Open-Source Machine Learning for All** – Designing a user-friendly program that simplifies machine learning model training for non-technical 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)

Online Certifications & COURSES

- 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 by DeepLearning.AI

PROFILE

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

REFERENCES

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