KIRTI RAJ

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[Email](#) ⋄ [LinkedIn](#) ⋄ [Portfolio Website](#) ⋄ [GitHub](#)

INTRODUCTION

Skilled Software Engineer with expertise in C, C++, Java and Python. Passionate about AI and ML, especially deep learning, proficient with platforms like TensorFlow, Keras, PyTorch, and Detectron2. Experienced in developing and deploying innovative machine learning/deep learning models and integrating AI into software applications.

EDUCATION

B.Tech in Computer Science and Engineering   Expected 2026
Sikkim Manipal Institute of Technology, Majitar
8.58 CGPA

CBSE Intermediate(Class XII)
Indian Public School, Madhubani   2022
85.4%

CBSE Matriculate(Class X)
Indian Public School, Madhubani   2020
93.6%

COMPETENCIES

Programming Languages	C, C++, Java, Python
Frameworks/Libraries	PyTorch, Detectron2, Qt, NumPy, Pandas, Keras, TensorFlow, Scikit-Learn
Databases	MySQL, SQLite
Development Tools	VS Code, Google Colaboratory, Git, GitHub, Docker, Jupyter, Vim
Operating Systems	Debian, Ubuntu, Arch Linux, Windows 11

EXPERIENCE

AI Intern and Team Lead   July 2024 - Present
Caare   *Remote*

- Lead a team of doctors and annotators ensuring on-time quality annotations across diverse datasets.
- Identified critical components actively contributing to heat maps in conjunction with the instance segmentation model being used.

Machine Learning Intern   June 2024 - July 2024
Bharat Intern   *Remote*

- Built a movie recommendation system using collaborative filtering.
- Developed a ML model for classifying Iris flowers based on their sepal and petal measurements.

PROJECTS

PlatePal A food identification and recommendation system called *PlatePal* that employs instance segmentation models from Foodvisor to accurately identify various food items presented to it and also suggest dietary recommendations based on user's goals and health conditions using an LLM model.[(Github Repo)](#)

Portfolio Website Made a personal portfolio website from scratch using Django as backend alongwith HTML5, CSS and JS. Hosted the project using Python Anywhere's hosting services on free tier.[(Github Repo)](#)

Kaplayer Currently developing this media player completely in C++ using Qt framework for fast and responsive GUI that supports a wide array of media codecs. Future scopes of this project includes database integration for online media hosting and access.[(Github Repo)](#)