

# KESHAV AGARWAL

Bijnor, Uttar Pradesh, India

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## Education

**Indian Institute of Information Technology, Una**

*Bachelor of Technology in Computer Science - CGPA:8.99 (Current)*

**Nov. 2022 - Present**

*Una, Himachal Pradesh*

**Blue Birds International School, Mandi Dhanaura**

*Percentage (PCM-CS): 98.8%*

**2020 - 2021**

*Dhanaura, Uttar Pradesh*

## Relevant Coursework

- Data Structures
- Machine learning
- Database Management
- Computer Architecture
- Algorithms Analysis
- Artificial Intelligence
- Operating System
- Computer Networks
- Object Oriented Programming

## Projects

### Image Classifier

*GitHub*

*Mar. 2024 - Apr. 2024*

- Developed a CNN-based image classification model with 95% accuracy in distinguishing over 4 different animal species, processing a dataset of 1500+ images.
- Utilized Python, TensorFlow, Keras, NumPy, Pandas, Matplotlib, and Google Colab to design, train, and evaluate the model, resulting in optimized performance and scalability.
- Contributed to wildlife research by enhancing species identification accuracy by 20%, with plans to scale the model for integration into mobile applications for field researchers.

### HeartGuard

*GitHub*

*Jan. 2024 - Feb. 2024*

- Engineered a heart disease prediction model using K-Nearest Neighbors (KNN), achieving 83% accuracy in predicting disease risk based on a dataset of 300+ health records.
- Applied data preprocessing and feature selection techniques, increasing model accuracy by 15%, and implemented a user interface for streamlined predictions.
- Developed a tool that supports early detection of heart disease, potentially improving patient outcomes by enabling timely interventions, with future plans to deploy the model in a web or mobile platform for real-time use.

## Technical Skills

**Languages:** Python, C, C++, HTML/CSS, JavaScript, SQL, Matlab

**Developer Tools:** VS Code, Jupyter Notebook, Google Collab

**Operating Systems/Technologies:** Windows, Linux, GitHub

## Achievements & Extracurricular

- Solved over **600+** **data structures and algorithms problems** on competitive coding platforms such as LeetCode, CodeChef, CodeForces and GeeksforGeeks.
- Active contributor to **AAVESH** (Electronic Society), engaged in workshops, seminars, and technical projects, fostering a collaborative learning environment.
- **Design Team Head, FORCE, IIIT Una** (Technical Society), leading the creation of visual content and contributing to the success of cultural and technical events.
- Achieved **20th rank** out of thousands of participants in the coding contest **CODE-RUSH**, hosted by **Algo University**.
- Won **1st place** in the MERAKI TechFest scavenger hunt by showcasing strong analytical capabilities and developing innovative strategies to solve complex tasks in a competitive environment.
- Organized **Robo Soccer** under the AAVESH Society, attracting participation from **50+ students**, and fostering interest in robotics and team collaboration.
- **Head of Design Department, EIC, IIIT Una:** Led a 30-member design team, overseeing projects and ensuring timely, high-quality outputs.
- Achieved **2-star(1460)** on CodeChef Competitive Programming platform.