

HARSH KAG

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EDUCATION

- **Indian Institute of Information Technology,Allahabad** Prayagraj, India
Master of Technology - Information Technolog July 2022 - present
- **University of Petroleum and Energy Studies** Uttarakhand, India
Bachelor of Technology July 2016 - July 2020
- **Indore Academy** Indore(MP), India
Higher Secondary-M.P Board 2016
- **St. Mary's H.S School** Barwaha(MP), India
Secondary-CBSE 2014

COURSEWORK/SKILLS

- Data Structures & Algorithms
- Machine Learning
- Deep Learning
- Operating Systems
- Database Management System (DBMS)
- OOPS Concept

PROJECTS

- **CollegePedia:A MERN stack-based college review application with authentication system:: collegepedia** || (April - July '23)
 - Implemented mern technologies such as, HTML, CSS, node.js, express.js, mongoDB and React, to build an app in which students of different colleges can register and login to create a profile, and review their college.
 - Other users can use that information to get an insight into their dream college.
- **Image Super Resolution using Generative Adversarial Network(GAN): SRGAN** || (Jan - March '23)
 - Design a Generative Adversarial Network (GAN) architecture, specifically based on the SRGAN (Super-Resolution GAN) model, to generate high-resolution images from low-resolution input images
- **Portfolio website: myPortfolio** || (June '23)
 - Created a portfolio website using React, HTML, and CSS, which showcases and highlights my education, skills, achievements, and experiences.
- **Analysis of Data Heterogeneity in Federated Learning Methods for Medical Imaging:** (ongoing)
 - This project focused on implementing federated learning techniques to train machine learning models on heterogeneous medical data. Achieved improved model performance by leveraging the collective knowledge of distributed medical data sources.

EXPERIENCE

- **Teaching Assistant - IIIT Allahabad:** Assisting the Professor in conducting lab sessions, invigilating exams, taking doubt sessions for the subject. (Sept 2022 - Dec 2022)

TECHNICAL SKILLS

- **Languages:** C, C++, Python(Basics), HTML, CSS, Node.js, Express.js, React, MongoDB, LaTeX
- **Developer Tools:** VS code, Google Colab

CERTIFICATIONS

- The Complete 2023 Web Development Bootcamp(July '23)
Credential ID: UC-bc96fef0-12f8-40d7-a95d-13d99baade87
- Supervised Machine Learning - Regression and Classification(Dec '22) Credential ID: RCJE7URTFR2
- Unsupervised Learning, Recommenders, Reinforcement Learning (March '23) Credential ID: JTN9VD279BRS

ACHIEVEMENTS

- Gate 2022 - 187 Rank - 96 Percentile
- Patent - Got Declaration as to Inventorship of Design analysis of an aircraft for short runway - Application Number: 202011031750
- Internship under Indian Air Force