Dhruv Kapri

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EDUCATION

- **Indian Institute of Technology (IIT), Kharagpur**   West Bengal, India
  Bachelor of Architecture - Architecture and Regional Planning; GPA: 8.92/10   *December 2021 - Present*

- **Sidhhartha Public School, Delhi**   New Delhi, India
  Class 12, Central Board of Secondary Education (CBSE); Score: 88.8%   *May 2018 - April 2020*

- **Gen. B. C. Joshi Army Public School, Pithoragarh**   Uttarakhand, India
  Class 10, Central Board of Secondary Education (CBSE); Score: 91.0%   *May 2017 - April 2018*

INTERNSHIP EXPERIENCE

- **Indian Statistical Institute, Kolkata — Prof. Umapada Pal**   Dec 2022 -
  Objective: To design and develop a tool to identify the sentiments depicted through typographic style of images
  - Collected, Pre-processed and analyzed image data-sets represent positive, neutral and negative sentiments.
  - Implemented the concept of contrastive learning to reduce the dependency of the model on large data-set.
  - Final strategy is a novel approach that integrates contrastive learning and Vision Transformers to form a robust model that examines the various characteristics of an image to achieve an accuracy score of 62%.

- **Indian Institute of Technology, Kharagpur — Prof. Prashant Anand**   Feb 2022 -
  Objective: To develop and design a tool to optimize various features to maximize comfort factor of occupants
  - Collected, Pre-processed and analyzed temperature, Carbon Dioxide, Relative Humidity data of various areas.
  - Generated various data points such as architectural element's position, energy requirements through simulation.
  - Final strategy is a novel approach that uses genetic optimization algorithm and simulations to achieve desired effect.

PROJECTS

- **Blog website to browse and create blogs via multiple users**   *Self Project*
  Objective: To develop a website for users to read, share, create, and edit various blog content.
  - Implemented **user authentication** and **authorization** features for secure create and update access to blog content.
  - Implemented **RESTful APIs** for handling **CRUD (Create, Read, Update, Delete)** operations on blog posts.
  - **Github** Link to the repository : https://github.com/Dhruv-Kapri/mern-blog

- **Note Keeper web application to create and manage self-notes**   *Self Project*
  Objective: To build a Keeper app with front-end and back-end frameworks to manage a To-Do list.
  - Built a **note keeper** application using **React, Node.js,** and **Express**, providing a note moanagement interface.
  - Developed the **backend** using **Node.js and Express**, creating a **RESTful API** that utilized **MongoDB**.
  - **Github** Link to the repository : https://github.com/Dhruv-Kapri/Keeper

- **Ham spam Email Classifier utillizing machine learning principles**   *Self Project*
  Objective: A mail authenticity detection system developed using Natural Language Processing algorithms.
  - Used **countvectorizer** and **tfidfvectorizer** for text preprocessing in the email classification system.
  - Compared accuracy of both on different classifiers including **decision tree, random forest, passive aggressive** etc.
  - **Github** Link to the repository : https://github.com/Dhruv-Kapri/ham-spam-classifier

AWARDS AND HONOURS

- Received the **Sunil Kanti Sen Memorial Award** amongst **all 1st year undergraduate students** of the Indian Institute of Technology, Kharagpur for securing the highest marks in the subject 'English for Communication'.
- Secured **departmental rank 2** in the Department of Architecture and Regional Planning, IIT Kharagpur.
- Secured **Contingent rank 1** in the Inter IIT Tech Meet 11.0 as a part of IIT Kharagpur contingent.
- Ranked among top **0.5 %** of the **2 Lakh** students in the country appearing for JEE Advanced in the year 2020.

COURSEWORK

- **IIT Kharagpur:** Programming and Data Structures (CS10003), Programming and Data Structures Laboratory (CS19003), Linear Algebra (MA11004), Indigenous Technologies and Innovations Workshop (AR23304), Modern Algebra (MA21202), Computer Aided Design and Simulation (AR23303)

- **MOOCs:** Machine Learning, DeepLearning.AI(Coursera) — Deep Learning, Stanford(Coursera) — The Complete Web Development Bootcamp, DR. Angela Yu(Udemy)

Skills Summary

- **Languages:** Javascript, PHP, HTML, CSS, Python, C, C++, SQL, Matlab
- **Development Frameworks and Databases:** NodeJS, ReactJS, ExpressJS, MongoDB, MySQL
- **Machine Learning Libraries:** Numpy, Pandas, Matplotlib, Scikit-Learn, TensorFlow, Keras
- **Operating Systems:** Windows, Linux
- **Integrated Development Environments:** Visual Studio Code, PyCharm, Jupyter Notebook, Google Colab

Positions of Responsibility

- **Design Subhead at Spring Fest, IIT Kharagpur**   2022 - 2023
  - Styled the fest's visual identity, which involved developing a logo, color scheme, that reflected the fest's theme and values.
- **Associate member at Prodex, IIT Kharagpur**   2021 - Present
  - A member of the product design society of IIT Kharagpur which participates in various product design competitions.
- **Associate member at Spectra, IIT Kharagpur**   2021 - Present
  - Worked in spreading and creating artworks of different form and medium through various organised workshop.

Extra-Curricular Activities

- Attended the annual training camp conducted by **National Cadet Corps** of India and holds **type B** certificate.
- Part of **Ambar**, a gender and sexual diversity support, resource and awareness group.
- In the editorial team of the **annual magazine, Sthapati** released by the Department of Architecture and Regional Planning, IIT Kharagpur.
- **Design Skills:** Photoshop, Illustrator, Blender, Figma, Canva, Sketchup, Lumion. **Portfolio Link:** OneDrive link