

DEEPAK KUMAR RAJ

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EDUCATION

University Institute of Engineering and Technology, Panjab University
B.E - Computer Science and Engineering

2021 – 2025
Chandigarh, India

COURSEWORK / SKILLS

- Data Structures & Algorithms
- Artificial Intelligence
- Computer Network & Security
- Operating Systems
- Database Management System (DBMS)
- OOPS Concept
- Software Engineering
- Neural Networks

SELECTED PROJECTS

SMART ATTENDANCE SYSTEM [↗](#) | *Python, Pandas, Haar Cascade, Face Recognition, OpenCV.*

- Developed a machine learning based **smart attendance system** using **face recognition with OpenCV**.
- The system records the **live attendance** using a webcam and outputs **attendance in an excel sheet** using **Yagmail**.

PORTFOLIO WEBSITE [↗](#) | *HTML, CSS, JavaScript, ReactJS, Bootstrap*

- Created a **dynamic** and **responsive web app** to showcase my skills, projects, and professional background
- Built the application using **ReactJS** for efficient and interactive user experiences
- Applied **Bootstrap CSS** for clean and responsive design elements

TODO APP [↗](#) | *ReactJS, TypeScript, Vite, Emotion, MUI*

- Developed a **ToDo-App** using **ReactJS** and **TypeScript** to manage daily tasks efficiently
- Utilized **Vite** for fast build and development setup, and integrated **Emotion** for CSS-in-JS styling
- Implemented **Material-UI (MUI)** components for a **responsive** and modern user interface

HOMEVALUE AI - HOUSE PRICE PREDICTOR [↗](#) | *Python, Scikit-learn, Flask, RestAPI*

- Implemented **data preprocessing**, **feature engineering**, and **regression model** to estimate house prices based on various features
- Created a front end using **Flask** with a **REST API** to facilitate user interactions and display predictions.

INTERNSHIP

Design Innovation Centre, Panjab University [↗](#)

Jun 2023 – Jul 2023

Artificial Intelligence Intern Scikit-Learn, TensorFlow, OpenCV

Chandigarh, India

- Contributed to the preprocessing and classification of fundus camera images for **diabetic retinopathy detection**
- Implemented **machine learning and deep learning algorithms** to improve the accuracy of image classification
- Collaborated with a team to enhance the **pipeline for data preprocessing and model training**

TECHNICAL SKILLS

Languages: C, C++, Python, HTML, CSS, JavaScript, TypeScript, SQL

Developer Tools: MySQL, Postman, Tableau, MongoDB, AWS, Docker

Technologies/Frameworks: Linux, REST API, TensorFlow, ReactJS, NodeJS, ExpressJS, Flask

CODING PLATFORMS

- Solved **100++** Problems on **Leetcode** and **GeeksforGeeks** [↗](#)
- Codeforces Max Rating **835** [↗](#)

CERTIFICATIONS

- Intro to Python [↗](#)
- JavaScript [↗](#)
- AI/ML For Geodata Analysis - **ISRO** [↗](#)
- Intro to Machine Learning [↗](#)
- XML [↗](#)
- Microsoft AI Classroom - **Microsoft** [↗](#)
- AWS Cloud Technical Essentials [↗](#)

EXTRACURRICULAR

- Participated in and Completed **Level 1 of the Flipkart GRID Robotics Challenge**.
- Cyber Swachhta Intern at **Chandigarh Police Cyber Crime Branch**
- Participated and Contributed to **GSSoC 2024 Extd**, enhancing codebases and implementing features.