DEEPAK KUMAR RAJ

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EDUCATION

University Institute of Engineering and Technology, Panjab University   **2021 – 2025**
B.E - Computer Science and Engineering   *Chandigarh, India*

COURSEWORK / SKILLS

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

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.**

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.

PORTFOLIO WEBSITE ↗ | *ReactJS, JavaScript, Bootstrap CSS*
- Created a dynamic and **responsive web app** to showcase my skills, projects, and professional background
- 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** components for a **responsive** and modern user interface

INTERNSHIP

Design Innovation Centre, Panjab University ↗   **Jun 2023 – Jul 2023**
Artificial Intelligence Intern *Scikit-Learn, TensorFlow, OpenCV*   *Chandigarh, India*
- Contributed to preprocessing and classification of over **50,000+** fundus camera images for diabetic retinopathy detection
- Improved image classification accuracy by **15%** using machine learning and deep learning algorithms
- Optimized data preprocessing and model training, reducing training time by **20%** while maintaining accuracy

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

- Codeforces Max Rating **835** ↗
- Solved **100++** Problems on **Leetcode and GeeksforGeeks** ↗

CERTIFICATIONS

- Python - **Kaggle** ↗
- XML - **Infosys** ↗
- AI/ML For Geodata Analysis - **ISRO** ↗
- Intro to Machine Learning - **Kaggle** ↗
- JavaScript - **Infosys** ↗
- Microsoft AI Classroom - **Microsoft** ↗
- AWS Cloud Technical Essentials ↗
- Data Science 101 - **IBM** ↗

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.