

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
- Web Development
- Software Engineering
- Neural Networks

PROJECTS

ToDo App [↗](#) | *JavaScript, ReactJS, TypeScript, Vite, Emotion, MUI*

- Developed a **ToDo-App** using **JavaScript, 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

Portfolio Website [↗](#) | *HTML, CSS, JavaScript, ReactJS, Bootstrap*

- Created a dynamic and responsive web application 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

House Price Predictor [↗](#) | *Python, NumPy, Pandas, Seaborn, Scikit-learn, TensorFlow*

- Developed a **machine learning model** to **predict house prices**
- includes data **preprocessing, feature engineering, and regression model implementation** to estimate house prices based on various features

INTERNSHIP

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

Jun 2023 – Jul 2023
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, SQL, XML

Developer Tools: MySQL, Postman, GitHub, Linux, Unix, Tableau, MongoDB, AWS

Technologies/Frameworks: TensorFlow, ReactJS, NodeJS, ExpressJS, PySpark

Soft Skills: Adaptability, Leadership, Communication

CODING PLATFORMS

- Solved **100+** Problems on **Leetcode** [↗](#)
- Codeforces Max Rating **665** [↗](#)

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

- Member of **Jugaad - Robotics Club of UIET**
- Member of **Imagen - Photography Club of UIET**
- **NSS** Volunteer from 2022 to till now
- Cyber Swachhta Intern at **Chandigarh Police Cyber Crime Branch**