# Deepak Kumar Raj

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#### **EDUCATION**

### UIET, Panjab University, Chandigarh

2021 - 2025

B.E - Computer Science and Engineering - CGPA - 6.34

Chandigarh, India

#### COURSEWORK / SKILLS

- Data Structures & Algorithms
- Computer Network & Security
- Database Management System (DBMS)
- Web DevelopmentSoftware Engineering

- Artificial Intelligence
- Operating Systems
- OOPS Concept

#### **PROJECTS**

Diabetic Retinopathy-Preprocessing & Classification Python, Scikit-Learn, Tensorflow Jul 2023

- Preprocessed and augmented the IDRiD dataset (413 retinal images) from IEEE DataPort, expanding it to 2,857 images
- Employed the InceptionResNetV2 model for classification tasks on the augmented dataset
- Achieved an accuracy of 78.48% on the testing dataset, demonstrating effective model performance.

## House Price Predictor Python, NumPy, Pandas, Seaborn, Scikit-learn

Jul 2024

- 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

**ToDo App**  $\square$  | JavaScript, ReactJS, TypeScript, Vite, Emotion, MUI

Feb 2024

- 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

#### **INTERNSHIP**

# Design Innovation Centre, Panjab University 🗷

Jun 2023 - Jul 2023

Artificial Intelligence Intern

Chandigarh, India

- Contributed to the preprocessing and classification of fundus camera images for diabetic retinopathy detection
- Implemented machine 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: VS Code, Jupyter Notebook, XCode, GitHub, MySQL, Tableau, AWS

Technologies/Frameworks: Linux, Unix, TensorFlow, React, NodeJS, ExpressJS, Git, MongoDB

Soft Skills: Adaptability, Leadership, Communication

#### CODING PLATFORMS

- Solved 100+ Problems on Leetcode
- Codeforces Max Rating 665

#### **CERTIFICATIONS**

- Intro to Python 🗷
- Intro to Machine Learning
- Microsoft AI Classroom Microsoft 🗷
- JavaScript 🕜
- XML
- AI/ML For Geodata Analysis ISRO

#### 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