

DEEPAK KUMAR RAJ

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EXPERIENCE

Open Source Contributor

Oct 2024 – Dec 2024

GirlScript Summer of Code (GSSoC)

- Improved code efficiency by **10%** through logic refactoring and optimized **DOM manipulations**.
- Built new features, fixed critical bugs, and enhanced functionality for thousands of users.
- Collaborated with seniors and managed **30+** GitHub contributions, ensuring coding best practices.

Artificial Intelligence Intern

Jun 2023 – Jul 2023

Design Innovation Centre, UIET

Chandigarh, India

- Contributed to data pre-processing and classification of over **55,000+** fundus camera images for diabetic retinopathy detection.
- Improved image classification accuracy by **15%** using **TensorFlow** and machine learning algorithms.
- Optimized data preprocessing and model training, reducing training time by **20%** while maintaining accuracy.

SELECTED PROJECTS

Face Recognition Attendance System | Python, OpenCV, Tkinter, Pandas

Jun 2023 - Jul 2023

- Developed a **machine learning** based smart attendance system using **face recognition with OpenCV**.
- Developed a live attendance system using a webcam and automated CSV reporting via **Yagmail**.
- Designed a **responsive front-end** using **Tkinter** for seamless user interaction with the application.

HomeValue AI | Python, Scikit-learn, NumPy, Pandas, Seaborn, Flask

Jul 2024 - Aug 2024

- Implemented data preprocessing, **feature engineering**, and **regression** model to estimate house prices accommodating 11 diverse feature input.
- Created a intuitive UI using **Flask** with a **REST API** to facilitate user interactions and show predictions.

Portfolio Website | ReactJS, JavaScript, Bootstrap CSS

Jan 2024 - Feb 2024

- Created a dynamic and **responsive web app** to showcase my skills, projects, and professional background.
- Applied **Bootstrap CSS** for clean and responsive design elements.

Task GPT | ReactJS, NodeJS, MongoDB, OpenAI API

Feb 2024 - Apr 2024

- Enables users to manage tasks efficiently with real-time intelligent suggestions tailored to activity history.
- Provided a secure, personalized experience with **scalable task management** and seamless data handling.
- Utilized **MongoDB** and **Express.js** for scalable backend and data management.

EDUCATION

University Institute of Engg and Technology, Panjab University, Chandigarh

2021 – 2025

B.E - Computer Science and Engineering : CGPA - 6.7*/10.0

Chandigarh, India

Course Work - Data Structures and Algorithms, Database Management System, Operating Systems, Computer Networks, Agile SDLC, Neural Networks

CODING PLATFORMS

- Leetcode Rating **1413**
- Codeforces Max Rating **964**
- Solved **200+** Problems on **GeeksforGeeks** and **Leetcode**

SKILLS

Languages: C++, Python, JavaScript, Go (Basic), HTML, CSS, OOPs

Developer Tools: Linux, Git, GitHub, Docker, Jupyter Notebook, REST, MySQL, MongoDB

Libraries: React.js, Node.js, Express.js, Flask, Scikit-learn, Pandas, NumPy, TensorFlow, PySpark

Cloud Technologies: AWS (EC2, S3, RDS, IAM, VPC, CloudWatch)

Soft Skills: Communication Skills, Analytical Thinking, Attention to Detail

CERTIFICATIONS

- Python - **Kaggle**
- Intro to Machine Learning - **Kaggle**
- AWS Cloud Technical Essentials**
- XML - **Infosys**
- JavaScript - **Infosys**
- 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**