

DEEPAK KUMAR RAJ

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EXPERIENCE

Open Source Contributor

Oct 2024 – Dec 2024

GSSoC-24 (GirlScript Summer of Code)

- 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 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, JavaScript, NodeJs, MongoDB, OpenAI API Feb 2024 - Apr 2024

- Developed a responsive task app using the **MERN stack** and **OpenAI API** for intelligent task suggestions
- Built **secure authentication** and **task history tracking** for personalized user experiences.
- Utilized **MongoDB** and **Express.js** for scalable backend and data management.

EDUCATION

Panjab University, Chandigarh

2021 – 2025

B.E - Computer Science and Engineering : CGPA - 6.71/10.0

Chandigarh, India

Course Work - Data Structures, Algorithms, Computer Networks, Operating Systems, OOPs, Database

Management System, Neural Networks, Agile SDLC

CODING PLATFORMS

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

SKILLS

Languages: C/C++, Python, HTML, CSS, JavaScript ES6, SQL, NoSQL

Developer Tools: Linux, Jupyter Notebook, MySQL, RESTful API, MongoDB, Git, Github, Docker

Libraries/Frameworks: Tkinter, Scikit-learn, NumPy, Pandas, TensorFlow, React.js, Node.js, Express.js, Flask

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

Soft Skills: Optimistic and Responsible, Critical thinking, Attention to details, Analytical Skills

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**
- Technical Team Member** at **Jugaad Robotics Club, UIET**