DEEPAK KUMAR RAJ

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EXPERIENCE

Open Source Developer ⧉   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 **20+** GitHub contributions, ensuring coding best practices.

Artificial Intelligence Intern ⧉   Jun 2023 – Jul 2023
Design Innovation Centre, Panjab University   *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

HomeValue AI ⧉ | *Python, Scikit-learn, NumPy, Pandas, Seaborn, Flask*   Jul 2024 - Aug 2024

- Built a regression model with preprocessing and **feature engineering** to predict house prices using 11 features.
- Developed an intuitive Flask UI with REST API for user interaction and predictions.

Task Pilot ⧉ | *React.js, Node.js, MongoDB, Gemini API, JWT*   Feb 2024 - Apr 2024

- Built AI-powered task manager with **Gemini AI**, drag-and-drop, real-time updates and task assistance.
- Developed **scalable** full-stack app using React, Redux, Express.js, **MongoDB** and **JWT authentication**.

Portfolio Website ⧉ | *ReactJS, JavaScript, Bootstrap CSS*   Jan 2024 - Feb 2024

- Built a responsive portfolio web app using Bootstrap to showcase skills and projects.

Face Recognition Attendance System ⧉ | *Python, OpenCV, Tkinter, Pandas*   Jun 2023 - Jul 2023

- Developed a face recognition based attendance system with real-time webcam input and CSV reports.
- Designed a responsive Tkinter GUI for smooth interaction.

EDUCATION

UIET, Panjab University, Chandigarh   2021 – 2025
B.E - Computer Science and Engineering : CGPA - 6.78/10.0

Course Work - Data Structures and Algorithms, DBMS, Machine Learning, Operating Systems, Agile SDLC

CODING PLATFORMS

- LeetCode Rating **1521** (Top **38.21 %**) ⧉
- Solved **400+** Problems on **LeetCode** and **GeeksforGeeks** ⧉

SKILLS

Languages : Python, C++, JavaScript, HTML, CSS, OOPs, SQL
Developer Tools : Linux, MySQL, Jupyter Notebook, MongoDB, Git, GitHub, REST API
Libraries : React.js, Node.js, Express.js, Flask, Scikit-learn, NumPy, TensorFlow
Cloud Technologies : AWS (S3, EC2, RDS, IAM)
Soft Skills : Communication Skills, Critical Thinking, Attention to Detail

CERTIFICATIONS

- Machine Learning - **Kaggle** ⧉
- **AWS** Cloud Technical Essentials ⧉
- JavaScript - **Infosys** ⧉
- Data Science - **IBM** ⧉

EXTRACURRICULAR

- Participated in and Completed **Level 1 of the Flipkart GRID Robotics Challenge.** ⧉
- Cyber Swachhta Intern at **Chandigarh Police Cyber Crime Branch** ⧉