AGRIMA JAIN

GitHub   LinkedIn   Personal Portfolio   agrimajain223@gmail.com

Education

UPES, Dehradun — Sep. 2022 – 2026
B.Tech Computer Science and Engineering — *CGPA 8.36*

Experience

Research Assistant — May 2024 - Ongoing
University of Petroleum and Energy Studies (UPES)

- Collaborated with Dr. Muthukumar K A on developing Simultaneous Localization and Mapping (SLAM) algorithms using ROS noetic framework and data extracted from Lidar 515 sensor.
- Currently refining results and optimizing SLAM algorithms to enhance mapping accuracy and real-time performance.
- Planning future integration of SLAM with neural networks for object detection to assist individuals with hearing impairments.

1EQ Foundation — June 2024 – July 2024
Software Engineer Intern

- Worked on a Spring Boot book management system to deepen understanding of the framework, followed by the creation of a task management application.
- Contributed to a healthcare product focused on provider credentialing, using the Spring Framework in Java.

Projects

TaskMate | *Spring Boot, AngularJS, MySQL, REST APIs* — [Code] | [Project]

- Implemented user authentication features, including sign-in and sign-up functionalities, using Spring Security and JWT.
- Enabled users to add, edit, and delete projects, and label them as important, incomplete, or complete.
- Users can add descriptions for projects and also add tasks needed to be completed within that project, marking the date when the project was created.

Identity Guard | *Python, OpenCV, Face Recognition, CVZone, NumPy, datetime* — [Code]

- Developed a facial recognition system using Python to detect faces, generate a box around them, and display the name of the identified individual.
- Implemented functionality to save detected images along with the time of detection in a CSV file.

Graph Summarizer | *Python, OpenCV, Pytesseract, ReportLab* — [Code]

- Developed a command line based application to summarize bar and line graphs, generating a PDF report with extracted details and summary.
- Implemented OpenCV for image processing, including Canny edge detection and Hough Transform to identify graph elements.

Technical Skills

Languages: Python, Java, HTML/CSS
Technologies/Frameworks: ReactJs, Tailwind, SpringBoot, Angular
Design Tools: Adobe Photoshop, Adobe Premiere Pro
Operating Systems: Linux, Windows
Database: SQL

Achievements

- Selected as a participant for Google Girl Hackathon 2024.
- Hackathon Finalist: Made it to the top 15 teams out of 100 teams in Hackathon 7.0 held by UPES-CSI.
- Coding Challenge: Won 10-day coding challenge held by Open Community during Open Learning Program.
- Poster Presentation: Won 3rd prize in Poster Presentation competition held for first-year students at UPES during IBM Ice Day.
- GSSoC Contributor: Contributed to the GirlScript Summer of Code 2024 with 2 successful PRs.
- Codess Cafe Mentee: Selected as a mentee in a Pro-bono mentorship program for collegiate women in tech, called Codess Cafe.