Abhay Pratap Singh

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Education

- **Ajay Kumar Garg Engineering College, Ghaziabad** — Ghaziabad, India
  Bachelor of Technology - Computer Science and Engineering — *January 2023 - Present*
  Specialization in Artificial Intelligence and Machine Learning

Projects

Robin-Hood ⬈ | ○ Abhay1006/Robin-Hood *(November 2023)*

- Developed a comprehensive pet shelter website using **ReactJs** v13.5.2 for a user-friendly interface focused on pet adoption and management.
- Designed a RESTful API with **NodeJs** and **ExpressJS** v4.18, incorporating **Google Maps API** and **MongoDb** for efficient backend services; enabled real-time pet location tracking and improved data retrieval speed by 40 percent, enhancing overall user interaction.
- Implemented **Json Web Token (JWT)** v9.0.0 for secure user authentication and applied **express-validator** v6.15 for comprehensive input validation; increased system security and decreased unauthorized access incidents by 40 percent.

Habit-tracker | *(Currently building)*

- Building a MERN stack web application with ExpressJs v4.18.2, ReactJS v16.5.2, MongoDb, Mongoose v7.0.3, and NodeJs v16 for habit tracking and routine management.
- Utilizes Json Web Token (JWT) v9.0.0 for secure authentication and express-validator v6.15 for rigorous input validation.
- Created a RESTful API backend, leveraging MongoDb for data management and Mongoose v7.0.3 for efficient schema design.

Yolo Image Processing website | Abhay1006/Yolo-website *(July 2024)*

- Collaborated on an AI/ML project to object detection using YOLO. Built the web application for displaying results.Used RabbitMq and celery for faster processing on website.
- Frontend: Created an interface with React for image uploads and displaying original and processed images. Backend: Developed Node.js/Express backend for handling image uploads and YOLO processing.
- Integration: Integrated YOLO for efficient disease detection. Real-Time Updates: Implemented WebSocket for real-time status updates. Deployment: Deployed using Docker for scalability. Technologies Used: HTML, CSS, JavaScript, Node.js, Express, YOLO, Docker

Skills

- **Languages**: Proficient in C, C++, HTML5, CSS, JavaScript, and SQL.
- **Frameworks**: Experienced with ReactJs, NodeJs, and ExpressJs.
- **Libraries**: Skilled in using TailwindCSSv3, Mongoose, and Bootstrapv5.
- **Tools/Utilities**: Familiar with Git, VS Code, MySQL, and MongoDb.

Achievements

- Achieved a rating of **1599** on **Codechef**, with over 130 problems solved on the platform **Codechef**.
- Attained a **CodeForces** rating of **1159** and solved over 200 problems on **CodeForces**.
- Completed nearly **450** problems on **Naukri.com-Code360** focusing on Data Structures and Algorithms (DSA).
- Solved over **200** problems on **LeetCode** for advanced Data Structures and Algorithms.
- Secured a global rank of **126** in the Starter 131 contest on **Codechef**.

Miscellaneous

- Participated in **Tryst'24**, organized by IIT Delhi. *(March 2024)*
- Advanced to the final round in **Geekathon 1.0**, hosted by VITAP. *(November 2023)*
- Awarded a **Gold Medal** at both the **Zonal Level** and **State Level** football tournaments with the college team, demonstrating strategic skills and teamwork during an undefeated season. *(October 2023)*