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# Profile Summary

* Recent B.Tech graduate in Information Technology with expertise in **full-stack** **development,** **data** **structures** and **algorithms**.
* Proficient in **frontend** **technologies** (HTML, CSS, JavaScript) and **backend** **technologies** (Node.js, Express.js, MongoDB).
* **Engineered** multiple full-stack applications including **MyLibrary**, a CRUD application, and **I** **Tech** **World**, an interactive educational platform.
* Dedicated to **continuous** **learning** and skill enhancement in software development while pursuing **full-stack** **web** **development** roles.

# Education

**Dr. A.P.J Abdul Kalam Technical University** Lucknow, UP

*Bachelor of Technology in Information Technology – CGPA: 7.86 Nov. 2020 – July 2024*

**Relevant Courses:** *Data Structures and Algorithms, Software Methodology, Web Technology, Computer Networks, AI, Operating Systems, Database Management, Object-Oriented Programming (OOP)*

# Experience/Projects

[**MyLibrary**](https://github.com/prashantsaini1525/MyLibrary) *| Node.js, EJS, MongoDB, JavaScript, Express.js, RESTful APIs* Nov 2024 – Dec 2024

* **Built** a full-stack CRUD web application for managing books and authors, achieving **98**% **data** **accuracy** through optimized database schema design using **MongoDB**.
* **Designed** and **implemented** RESTful API endpoints for book management with user authentication, resulting in **100**% **authentication** **success** **rate** during user acceptance testing.
* Implemented data validation and security measures using **JWT** and **bcrypt**, enhancing data integrity and **system** **security**.
* **Integrated** MongoDB for seamless data storage, providing efficient **database** queries and enhancing **overall** **app** **performance** by **20%.**

[**I Tech World**](https://i-tech-gamma.vercel.app/)*| HTML, CSS, JavaScript, Node.js, Express.js, MongoDB, Chatbot* Oct 2023 – Jan 2024

* **Created** a responsive educational platform using **HTML**, **CSS**, and **JavaScript** for high school (10th–12th grades) and engineering students, **optimizing** for mobile and desktop.
* **Incorporated** advanced features such as a custom chatbot, **quiz** **functionality** (via Google Forms), **user** **login/logout** system, and **premium** **course** **access**, achieving **95%** **user** **engagement** **rate.**
* Integrated real-time user interaction with a **RESTful** **API**, achieving seamless content updates and improved **platform** responsiveness.

**[Heart Disease Prediction](https://github.com/prashantsaini1525/Heart-Disease-Predicition)** *| Python, Pandas, NumPy, Sklearn* May 2023 – Jun 2023

* **Developed** a machine learning model to predict heart disease, utilizing Kaggle's comprehensive medical **datasets**.
* Achieved **87%** **accuracy** on validation datasets, exceeding baseline performance by 10%, with precision rates of **90%** for **positive** **cases** and **85%** for **negative** **cases.**
* Applied data preprocessing techniques such as **scaling**, **normalization**, and outlier detection to **improve** **model** performance by **10%.**

# Technical Skills

**Programming Languages**: Java, JavaScript

**Frontend Technologies**: HTML, CSS, EJS,React.js

**Frameworks & Libraries**: Node.js, Express.js, Sklearn, Pandas, NumPy, WordPress

**Database Management**: MongoDB, SQL

**Development Tools:** Visual Studio Code, GitHub, Google Colaboratory, Power BI

**API Design & Integration**: RESTful APIs, Postman

**Productivity Software:** Excel, Notion, Custom Chatbot

# Certifications

* + Problem-Solving Techniques (Java) Certification — HackerRank
  + CSS (Basic) Certification — HackerRank
  + Generative AI Project Planning — AWS Skill Builder

# Interests

* Technology and Innovation Enthusiast.
* Building responsive websites and exploring various web frameworks to create impactful user experiences.
* Reading tech blogs and contributing to open-source projects.