

YANSHU AGARWAL

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SKILLS

Languages: C++, Python, JavaScript (ES6+), SQL, HTML5, CSS3
Frameworks: React.js, Next.js, Node.js, Express.js, Scikit-learn
Tools/Platforms: MongoDB, Redux, PostgreSQL, Postman, Clerk, Git, GitHub, Supabase, Excel
Concepts: OOP, REST APIs, SDLC, Agile/Scrum, NLP, Data Structures

PROJECTS

AI-Powered Autism Intervention Platform | *Python, ML, NLP, OpenCV* | [GitHub](#) August 2025 – October 2025

- **Engineered** an AI-powered digital intervention platform using Python to analyze complex data sets of **behavioral patterns**, assisting children with ASD in **emotion recognition** and learning consistency.
- **Developed** predictive **data models** and NLP pipelines, achieving an estimated 80%+ accuracy in emotion detection and sentiment analysis to deliver personalized activity recommendations.
- **Designed** a robust caregiver dashboard integrated with REST APIs and **data visualization tools**, streamlining the monitoring of emotional trends and improving parental decision-making speed by 40%.

Personal Library Tracker | *React.js, Tailwind, Node.js, MongoDB* | [GitHub](#) June 2025 – July 2025

- **Built** a full-stack web application utilizing the MERN stack to manage **databases** of 100+ books, ensuring secure **data integrity** via custom OTP-based authentication.
- **Architected** scalable **server-side architecture** with Node.js, implementing seamless **CRUD** operations and file storage, which reduced manual tracking effort by over 50%.
- **Optimized** search and filtering **algorithms** across 3 dynamic reading states, enabling users to retrieve and update specific book data in under 5 seconds per query.

E-commerce Purchase Predictor | *Python, Scikit-Learn, Pandas, Matplotlib* | [GitHub](#) February 2025 – March 2025

- **Analyzed complex data sets** containing 5,000+ e-commerce user interactions, applying core **statistics** and exploratory data analysis to identify critical purchasing patterns.
- **Trained** and deployed machine learning **data models** to forecast purchase likelihood, achieving a 75%+ prediction accuracy through rigorous data preprocessing and feature engineering.
- **Created** comprehensive **data visualization** dashboards to extract actionable insights, directly formulating **data-driven solutions** to improve targeted customer engagement.

TRAINING

CipherSchools – MERN Stack Web Development June 2025 – July 2025

- **Completed** comprehensive training in full-stack web development, gaining hands-on proficiency in building responsive applications using the **MERN stack** (MongoDB, Express.js, React.js, Node.js).
- **Applied** core concepts by developing practical web projects, focusing on **RESTful API** integration, secure user authentication, and scalable database management.

CERTIFICATES

Oracle Data Platform Foundation 2025 | [Oracle](#) March 2026
Cloud Computing | [NPTEL](#) July 2025
DSA with C++ | [CipherSchools](#) October 2024

ACHIEVEMENTS

Achieved LeetCode Rating 1640+ (Top 18%). March 2026
Maintained an active GitHub profile with 300+ contributions in the last year. January 2026

EDUCATION

Lovely Professional University Phagwara, Punjab
Bachelor of Technology August 2023 – Present
Computer Science and Engineering; CGPA: 7.73
Mohta Public School Sadulpur, Rajasthan
Intermediate April 2020 – May 2022
PCM; Percentage: 76%
Mohta Public School Sadulpur, Rajasthan
Matriculation April 2018 – May 2020
Percentage: 83.6%