Ashutosh Singh

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[LinkedIn](#) • [Github](#) • [CodeChef](#) • [Leetcode](#)

PROFESSIONAL SUMMARY

AI-focused Computer Science student exploring scalable intelligent systems at the intersection of Reinforcement Learning and Large Language Models. Currently learning and experimenting with hybrid RL-LLM architectures, multi-agent coordination frameworks, and real-world AI applications. Strong algorithmic foundation with competitive coding experience (LeetCode: 160+ problems, ˜1500 rating; CodeChef: 1300+ rating). Passionate about neuro-symbolic AI, interpretability, and distributed intelligent systems.

Portfolio: https://ashutosh-portfolio09.vercel.app

EDUCATION

Bachelor of Technology (Artificial intelligence) Newton School of Technology, Rishihood University.	2024 - 2028 Grade: Pursuing
Intermediate (Class XII) A.P.S International School	2022 - 2023 Grade: 82.0%
Matriculation (Class X) A.P.S International School	2020 - 2021 Grade: 89.0%

PROJECTS

EstateVerse: AI-Powered Real Estate Price Persona Predictor ([Github](#)) ([Demo](#)) — October 2025

    Tech Stack: React, Node.js, Express, MongoDB, Python, FastAPI, Scikit-learn

    Key Features:

- AI-based property price prediction using Linear Regression
- Buyer persona prediction using K-Means clustering
- Secure user authentication with JWT and role-based access control
- Full CRUD operations for property management
- Advanced search, filtering, sorting, and pagination
- Responsive and user-friendly dashboard

    Description:

- Designed and developed a full-stack AI-powered real estate application
- Integrated machine learning models with a web-based interface for real-time predictions
- Enabled data-driven property pricing and targeted buyer identification

Japanese Sushi Website – Responsive Frontend Project ([Github](#)) ([Demo](#)) — May 2025

- **Tech Stack:** HTML, CSS, Vanilla JavaScript
- **Features:** Responsive design, smooth scrolling, interactive menu, fast load performance
- **Description:** Designed and developed a visually appealing, sushi-themed website inspired by Japanese culture, optimized for both desktop and mobile experiences.

Interview Agent – AI-Powered Interview Preparation Tool ([Github](#)) ([Demo](#)) — April 2025

- **Tech Stack:** Next.js (React), Firebase (Firestore Auth), Gemini API, Vercel
- **Features:** Real-time interview Q A using Gemini API, mock interview simulation, secure login system
- **Description:** Developed a smart interview preparation platform that dynamically generates questions using Gemini API, simulates mock interviews, and ensures user authentication and scalability via Firebase.

Photo to Json convertor ([Github](#)) ([Demo](#)) — February 2025

- Tech Stack : **html , css , react , AI .**

- Features : Extract text , convert text to JSON.
- Description : This app takes an image and extracts the image text and converts it into a JSON file .

CERTIFICATIONS

Specialization Certificate Machine Learning Stanford University & DeepLearning.AI on Coursera (Link)   May 2025
Machine Learning Specialization
Stanford University
DeepLearning.AI on Coursera
Completed: July 12, 2025 — **Instructor:** Andrew Ng
Verified Account: Ashutosh Singh
Completed the 3-course specialization covering both foundational and advanced machine learning topics:

- **Supervised Learning:** Linear/Logistic Regression, Neural Networks, Decision Trees
- **Advanced Algorithms:** Regularization, Neural Network Training, Optimization
- **Unsupervised Learning:** Clustering, Anomaly Detection, Recommender Systems, Reinforcement Learning

Built practical skills through hands-on labs and projects. Gained end-to-end ML pipeline understanding and applied ML to real-world challenges.

Python for Beginners Newton School Of Technology (Link)   July 2024
For successfully completing **Python for Beginners** course.
C++ for Beginners Newton School Of Technology (Link)   June 2024
For successfully completing **C++ for Beginners** course.

SKILLS

Computer Languages: Machine Learning, HTML, CSS, JavaScript, Python
Data Tools: NumPy
Software Packages: React, Pandas, Matplotlib
Additional Courses: Data Structure
Soft Skills: Critical Thinking
Others: Generative AI, Supabase

EXTRA-CURRICULAR ACTIVITIES

- Participated in Olympiads.
- College Hackathon Winners.
- Member of Marketing and Communication of Google Developer Group.
- Work in Organising College Fest.