

RAGHAVENDRA OJHA

Software Engineer | Full Stack Developer | Artificial Intelligence

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PROFESSIONAL SUMMARY

Computer Science Engineering undergraduate specializing in Artificial Intelligence and Machine Learning, with hands-on experience designing and shipping full stack web and Android applications, including a business accounting application published on the Google Play Store. Skilled in React, TypeScript, Firebase, Kotlin, and Python, with practical exposure to machine learning workflows and recommendation systems. First author of a research paper presented at an international engineering conference.

TECHNICAL SKILLS

Programming Languages: C, C++, Python, Java

Artificial Intelligence & Machine Learning: Machine Learning Fundamentals, Data Preprocessing, Recommendation Systems, Personalization

Web & Mobile Development: HyperText Markup Language, Cascading Style Sheets, React, TypeScript, Firebase, Kotlin, Android, Progressive Web Applications

Core Computer Science: Data Structures, Operating Systems, Database Management Systems

Tools: Git, GitHub, Visual Studio Code, Android Studio, Firebase Console, Microsoft Excel

INTERNSHIP EXPERIENCE

Artificial Intelligence and Machine Learning Intern

Achmegrade | Remote

- Applied the end-to-end machine learning workflow, including data preprocessing, feature engineering, and model evaluation, on practical datasets.
- Strengthened applied understanding of core artificial intelligence concepts through hands-on implementation of real-world workflows.

RESEARCH PUBLICATION

Artificial Intelligence Based Personalized Yoga Recommendation System Using Lifestyle and Health Parameters | First Author

Presented at the International Conference on Advances in Applied Engineering and Technology (ICAAET) 2026 — Publication in progress

- Designed and implemented a personalized yoga recommendation system using lifestyle and health parameters, with machine learning models trained and evaluated on publicly available Kaggle datasets.
- Performed dataset preprocessing and model evaluation, authored the IEEE-format manuscript, and presented the work at the international conference.

PROJECTS

ShopLedger – Business Accounting Application | Published on Google Play Store, 2026

- Developed and published ShopLedger, a full-featured business accounting application that lets shopkeepers digitally manage billing, inventory, customer ledgers, and payment records, cutting reliance on paper-based bookkeeping.
- Architected the app as a Progressive Web Application packaged with Capacitor for Google Play Store distribution, using Firebase and Firestore for real-time cloud synchronization, autocomplete-driven billing forms, and payment tracking.

Technologies: React • TypeScript • Firebase • Capacitor • Progressive Web Application

Land Registry and Property Marketplace

- Architected a property marketplace enabling users to list properties using precise map-based location pinning and interactive boundary drawing for accurate land visualization.
- Connected buyers directly with sellers through an integrated discovery experience, replacing manual, listing-based property search with map-driven browsing.

Technologies: React • TypeScript • Firebase • Maps

Task Scheduler and Productivity Management Application

- Designed a productivity application that helps students plan, organize, and schedule daily tasks through an intuitive, distraction-free interface.
- Engineered offline-first data persistence, Firebase-backed authentication, and biometric app-lock security for reliable task management without constant connectivity.

Technologies: React • Kotlin • Jetpack Compose • Firebase • Room

Space Invaders Game

- Developed a two-dimensional arcade shooting game using Python and the Pygame library with collision detection, scoring, and progressive difficulty.
- Implemented responsive controls and gameplay mechanics for an engaging interactive experience.

Technologies: Python • Pygame

CERTIFICATIONS

Achmegrade: Online Internship in Artificial Intelligence and Machine Learning

LinkedIn Learning: Prompt Engineering • Time Management • Python: Beginner to Advanced • Generative Artificial Intelligence

Coursera: Database Management Systems • Mathematics for Machine Learning: Linear Algebra • Python for Data Science, Artificial Intelligence and Development

Microsoft: Foundations of Artificial Intelligence and Machine Learning

EDUCATION

Bachelor of Technology, Computer Science Engineering (Artificial Intelligence and Machine Learning) Chandigarh University | Expected Graduation: 2028

Class XII, Jawahar Navodaya Vidyalaya, Rewa – Score: 90.2% | Class X, Jawahar Navodaya Vidyalaya, Rewa – Score: 87%

ACHIEVEMENTS & ACTIVITIES

JEE Advanced: Scored 42 marks in Physics. • Scout and Guide Certified: Tritiya Sopan Certification. • Selected for a five-day trekking and training program at Kullu-Manali based on Scout and Guide performance.

SOFT SKILLS & INTERESTS

Soft Skills: Analytical Thinking, Problem Solving, Continuous Learning **Interests:** Machine Learning, Product Development, Full Stack Development