AJAY SONI

Applied AI/ML & Computer Vision Systems Builder

BCA Data Science | Expected Graduation: 2029

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PROFESSIONAL SUMMARY

BCA Data Science student graduating in 2029, focused on Applied AI/ML and Computer Vision. Builds practical machine-learning, computer-vision, and AI software using Python and modern engineering practices, with emphasis on testing, reliability, and deployment.

CORE SKILLS

AI/ML & Computer Vision: Python, Machine Learning, Computer Vision, TensorFlow, OpenCV, scikit-learn

Systems & AI Engineering: FastAPI, Pydantic, Supabase, Git/GitHub, CI/CD, Agentic AI

SELECTED TECHNICAL PROJECTS

VXN-RAMNet - GPS-Free Visual Route-Memory Research Baseline GitHub Repo

Deterministic frame sampling, EfficientNetB0 embeddings, similarity matching, constrained branch/backtracking logic, abstention rules, typed schemas, checksummed artifacts, unit/integration/regression tests, CI, and an 80% coverage gate.

VeriTrust MailGraph - Email Threat & Forensic Intelligence GitHub Repo | Live Site

Bounded EML/MIME parsing; DKIM/DMARC/ARC and trusted-SPF evidence; identity, URL and infrastructure analysis; Campaign Memory; signed Evidence Passports; Supabase RLS; OpenAPI; CI; and a documented 40/40 release-validation pass.

Nexora-AI - Agentic Website-Generation System

Browser + FastAPI/Pydantic coding-agent runtime with phase-specific tool policies, structured outputs, workspace isolation, provider adapters, checkpoints/rollback, browser verification, and version-controlled Supabase migrations/RLS/storage policies.

CodePilot-AI - Browser-Native Python Notebook + AI Copilot

Runs Python locally in the browser with Pyodide, notebook/workbook UX, local-safe storage, Supabase authentication/persistence, and a Vercel OpenRouter AI proxy.

AI-DS-100 - Applied AI & Data Science Project Lab GitHub Repo

Open-source lab with 66 implemented notebook bundles across basic, intermediate, and advanced levels, paired with datasets, reports/PDFs, and concise project descriptions.

Additional engineering: CampusConnect, DevArise, DeepShield-X, AutoML-Tool, AutoEDA-Tool, PerceptronX-Lib, and Weather-Sense-ML.

PROFESSIONAL EXPERIENCE

Technical Lead | Team Z Sphere

Chandigarh University, Uttar Pradesh Campus, Unnao, India | Jun 2026 - Present

- Lead technical delivery and personally taught all 6 Prompt Engineering and Generative AI workshops; designed curriculum, live demos, exercises, Q&A, and end-to-end session delivery; 4 workshop posts were independently surfaced in the Sep 2026 public audit.
- Represented Team Z Sphere at the RocketRide Buildathon in Hyderabad; across RocketRide plus 4 workshop posts, 5 recent original posts averaged 67.8 visible interactions per post in the Sep 2026 audit.

Social Media Manager & Chapter Moderator | HackwithIndia

Remote, India | Jun 2026 - Present

- Coordinate chapter communication, moderation, participant support, and promotion for hackathons, workshops, and technical initiatives.

OPEN-SOURCE SIGNAL

GitHub snapshot - 13 Sep 2026: AI-DS-100: 71 stars / 11 forks **VXN-RAMNet: 64 stars / 11 forks**

EDUCATION

Bachelor of Computer Applications (BCA), Data Science | Chandigarh University, Uttar Pradesh Campus | 2025 - 2029 | **Expected Graduation: 2029** **Semester 1 SGPA: 9.0/10**

Senior Secondary (XII), CBSE - Commerce | J Dawn Wasco School, Azamgarh, Uttar Pradesh **88.60%**

CERTIFICATIONS & TRAINING

SAS Certified Associate: Modeling Using SAS Visual Statistics | SAS **Apr 2026 - Apr 2031**

IBM Machine Learning Professional Certificate | IBM (Coursera) **Issued Jun 2025**

Data Structures in C | University of Michigan **Issued Jan 2025**

Computer Software and Data Processing | AAR-CODES Institute **Sep 2021 - Sep 2031**