

Ansh Madan

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EDUCATION

Ashoka University

Sonapat, Haryana

B.Sc. (Hons.) in Computer Science, Minor in Psychology

May 2026

- GPA: 3.3/4.0 | Dean's List: Monsoon 2025, Spring 2026
- Relevant Coursework: Machine Learning, Data Structures & Algorithms, Graph Theory & Network Science, Statistics & Research Methods, Data Science & Management, Design & Analysis of Algorithms

EXPERIENCE

Data/Software Engineering Intern

Jul 2025 – Aug 2025

SHOPR

Bangalore, Karnataka

- Automated Python data-validation and ML normalization pipelines across 50K+ multi-brand catalog records, lifting usable data coverage by 300% and enabling a zero-defect migration for app launch
- Built computer-vision workflows to generate isolated garment images, cutting catalog processing and deployment time by 25% and unblocking scalable virtual try-on testing
- Shipped monitoring dashboards and alerts surfacing data-quality and model-performance metrics across the 50K-record catalog for product and operations teams

Data Science & Analytics Intern

Jun 2024 – Aug 2024

Indian Accents

New Delhi, Delhi

- Built a React/Node.js analytics dashboard with automated SQL audits over ERP/WMS data, improving page-load speed by 48% and lifting inventory accuracy to 97%
- Developed Python/OpenCV quality-control scripts on AWS S3 product images, saving 5+ hours of manual QA per style and removing repetitive operational work

PROJECTS & RESEARCH

Misinformation Perception (Research Paper, In Progress) | *BERT, PyTorch, NLP*

Sep 2025 – Present

- Built a BERT-based multi-label classifier detecting 6 psychological manipulation mechanisms in misinformation headlines, achieving 73.39% macro F1 and 91.04% ROC-AUC on a 4,050-headline dataset
- Engineered a modular ML pipeline spanning preprocessing, training, hyperparameter tuning, and single-headline inference with reproducible config-, dataset-, and model-level workflows

Yelp Wrapped | *Next.js, Python, Neo4j, Cypher*

Mar 2025 – Apr 2025

- Engineered a graph-analytics pipeline over 68K+ Yelp records using PageRank, Leiden clustering, and Jaccard de-duplication to power sentiment trends, influence scoring, and recommendations

Automated Bird Species Identification | *SAM, TensorFlow, Keras, OpenCV*

Feb 2024 – Mar 2024

- Built a two-stage computer-vision pipeline combining SAM segmentation, HSV/shape/density filtering, and a TensorFlow/Keras classifier to identify 25 bird species in cluttered scenes

Employee Promotion Prediction | *Random Forest, scikit-learn, Flask*

Oct 2023 – Dec 2023

- Trained a cross-validated Random Forest classifier ($F1 = 0.93$) on 54K+ employee records and deployed it via a Flask app serving real-time promotion-eligibility scores

LEADERSHIP & ACTIVITIES

Projects & Hackathon Team Member

May 2024 – May 2025

Ministry of Technology, Student Government

Ashoka University

- Launched 11 Django/React/PostgreSQL tools for a campus platform serving 3,524 users, using Mixpanel and CI/CD to prioritize releases and cut issue-resolution time by 40%

LANGUAGES & TECHNOLOGIES

Languages: Python, SQL, R, JavaScript, C++, C#, HTML/CSS

ML / AI: PyTorch, TensorFlow, Keras, scikit-learn, BERT & NLP, Random Forest, OpenCV, Segment Anything Model (SAM), Predictive Modeling

Data & Tools: Pandas, NumPy, Neo4j (Cypher), PostgreSQL, MongoDB, AWS S3, Git/GitHub, Heroku, Next.js, React, Django, Flask, Node.js, Mixpanel