

# Mankirat Kaur

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## Professional Summary

CSE-AI student at Chitkara University with practical experience in Python, Machine Learning, and full-stack web development. Passionate about cloud security, scalable AI systems, and data analytics. Seeking to contribute to Zscaler's secure cloud ecosystem through innovation and collaboration.

## Key Achievements

- Organized **HackIndia 2025**, a national-level hackathon fostering cybersecurity and AI innovation.
- Participated in the **Joget Company Hackathon**, developing workflow automation ideas for cloud platforms.
- Published a Scopus-indexed research paper titled *"Error Analysis of Heat-Like Equations Using He's Polynomial"*.
- Selected for the **Overseas Immersion Program** at Middlesex University, Dubai, for AI innovation and leadership.

## Technical Skills

Programming Languages	Python, C++, Java, JavaScript
Frameworks	Django, Flask, React.js, Node.js, Next.js
Machine Learning & Data	TensorFlow, Scikit-Learn, Pandas, NumPy
Cybersecurity & Cloud	Networking Basics, Cloud Concepts (AWS, GCP), API Integrations
Databases	MySQL, MongoDB, Firebase

## Projects

### PlantVision Guardian

[GitHub](#)

AI-based plant disease detection using CNNs and TensorFlow Lite. Provides real-time diagnosis, treatment suggestions, and cloud-based reporting.

### CareerBridge

[GitHub](#)

MERN-stack intelligent job portal featuring ML-powered job recommendations, secure authentication, and analytics dashboard.

### Elevate-AI

[GitHub](#)

Agentic AI platform using Groq API for personalized academic and career assistance with modular multi-agent design.

## Experience

### Event Coordinator — Evolve AI Club, Chitkara University

Mar 2024 – Present

- Managed large-scale AI events, including HackIndia 2025 and Genesis Gala, with 200+ participants.
- Supervised event planning, promotion, and cross-functional team collaboration.

### Data Analyst (Simulation) — Accenture North America (Forage)

Jan 2025

- Analyzed datasets to generate actionable insights and data-driven recommendations.
- Built Power BI dashboards for visual storytelling and performance reporting.

### Overseas Immersion — Middlesex University, Dubai

Sept 2025

- Engaged in international workshops on AI, cloud computing, and cybersecurity trends.

## Education

2023 – 2027 **Chitkara University, Punjab** — B.E. CSE (Artificial Intelligence)

CGPA: 9.5/10

2021 – 2022 **Police DAV Public School, Ambala City (CBSE)** — 91%

2019 – 2020 **St. Paul's High School (ICSE)** — 94.4%

# Publications

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**Error Analysis of  $(1+1)$  &  $(2+1)$ -Dimensional Heat-Like Equations Using He's Polynomial** — Scopus-indexed Journal.

**AI Technology in Smart Building Automation and Management** — Published in ICATES-2024 Proceedings.