

# MANKIRAT KAUR

Ambala, India — [mankiratkaur215@gmail.com](mailto:mankiratkaur215@gmail.com) — +91-XXXXXXXXXX  
[linkedin.com/in/mankirat-kaur-a806a22a2](https://linkedin.com/in/mankirat-kaur-a806a22a2) — [github.com/mankiratkaur1](https://github.com/mankiratkaur1)

## Professional Summary

Goal-driven and detail-oriented Computer Science and Engineering (AI) student at Chitkara University with hands-on experience in Machine Learning, Cloud Computing, Python, and Web Development. Passionate about building scalable AI-driven systems and exploring secure cloud-based applications. Seeking to contribute to Zscaler's mission of delivering fast, secure, and reliable digital experiences.

## Key Achievements

- Published research paper titled "*Error Analysis of Heat-Like Equations Using He's Polynomial*" in a Scopus-indexed journal.
- Organized **AI.Create 3.0** and **Genesis Gala** under Evolve AI Club, showcasing leadership and project coordination.
- Selected for **Overseas Immersion Program** at Middlesex University, Dubai, focused on innovation and AI collaboration.
- Completed Accenture North America's **Data Analytics Simulation** (Forage) — demonstrated strong analytical and visualization skills.

## Technical Skills

Programming Languages	Python, C++, Java, JavaScript
Frameworks	Django, Flask, React.js, Node.js, Next.js
Machine Learning	TensorFlow, Scikit-Learn, Pandas, NumPy
Databases	MySQL, MongoDB, Firebase
Other Tools	Power BI, Git, Cloud Basics (GCP, AWS)
Soft Skills	Leadership, Communication, Team Management

## Projects

<b>PlantVision Guardian</b> — AI-based Plant Disease Detection System	<i>Python, TensorFlow, Firebase</i>
Developed a CNN-based model for real-time plant disease detection with mobile integration. Achieved accurate classification and cloud report generation for farmers.	

<b>CareerBridge</b> — Intelligent Job Portal	<i>MERN Stack, ML Integration</i>
Built a smart job-matching platform featuring role-based authentication, live tracking, and recommendation algorithms.	

<b>Elevate-AI</b> — Agentic AI Platform	<i>Groq API, Next.js</i>
Designed a multi-agent AI assistant system for academic and career guidance using APIs and real-time data retrieval.	

## Experience

<b>Event Coordinator</b> — Evolve AI Club, Chitkara University	Mar 2024 – Present
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- Organized AI-focused events and workshops enhancing awareness and hands-on learning.
- Managed event planning, technical setups, and team coordination.

<b>Data Analyst (Virtual Internship)</b> — Accenture North America (Forage)	Jan 2025
<ul style="list-style-type: none"><li>Analyzed and visualized multiple datasets to derive actionable business insights.</li><li>Delivered professional client presentations with Power BI dashboards.</li></ul>	

- Attended global innovation sessions on AI, Cybersecurity, and Cloud technologies.
- Collaborated with international peers on sustainability and technology projects.

## **Education**

### **Chitkara University, Punjab**

2023 – 2027

B.E. in Computer Science and Engineering (Artificial Intelligence)

CGPA: 9.5 / 10

### **Police DAV Public School, Ambala City (CBSE)**

2021 – 2022

Percentage: 91%

### **St. Paul's High School (ICSE)**

2019 – 2020

Percentage: 94.4%

## **Publications**

- Kaur, M. *Error Analysis of (1+1) & (2+1)-Dimensional Heat-Like Equations Using He's Polynomial*. Scopus Indexed Journal.
- Kaur, M. *AI Technology in Smart Building Automation and Management*. Published in ICATES-2024 Conference Proceedings.