

B.E. Computer Engineering student with strong foundations in AI/ML, Data Science, and DSA. Skilled in Python, C++, and Deep Learning (OpenCV, Transformers). Passionate about building scalable, real-world AI systems. Seeking internship opportunities in Core AI/ML, Data Science or SDE roles.


EDUCATION

Thapar Institute of Engineering and Technology Bachelor of Engineering in Computer Engineering (CGPA: 7.0)	Patiala, Punjab, India July 2023 – September 2027
Amity International School, Sector-46 Nursery - Class 12 (PCM)	Gurgaon, Haryana, India April 2009 – June 2023

SKILLS

- Programming Languages:** C++, Python, C, R
- Data Structures and Algorithms:** Advanced proficiency (Greedy Algorithm, Graph, Dynamic Programming, Trees etc.)
- AI/ML Frameworks:** TensorFlow, OpenCV, Scikit-Learn, Deep Learning, LangChain, Transformers, Pytorch, CNN, XGBoost
- Web Development:** Flask, Django, HTML, CSS, API Integration
- DevOps:** Docker
- Tools and Platforms:** Git, GitHub, VSCode, Raspberry Pi, Linux, Raspbian
- Databases:** Oracle, MySQL, PostgreSQL, Firebase
- Current Learning Areas:** AI Model Optimization, LLMs, Transformers, Vision Transformers, LLM Fine Tuning, MCP
- Core Skills:** SDLC, Problem Solving, Communication, Teamwork, Project Management, Analytical Thinking

PROJECTS

- ShakespeareGPT | Transformer from Scratch** *PyTorch, NLP, Gradio*
 - Implemented full Transformer architecture (multi-head attention, layer norm, positional encoding) per “Attention Is All You Need”.
 - Trained on Tiny Shakespeare dataset; achieved perplexity of 18.7 after 10 epochs and 94% input coherence.
 - Deployed model with Gradio + Streamlit, enabling real-time user prompts and 250ms generation latency.
- Real Estate Investment Tracker** *React, Node.js, Oracle SQL, PL/SQL* 
 - Built a full-stack real estate analytics platform in a 3-member team, featuring React dashboard, REST API backend, and raw SQL/PLSQL-based Oracle DB with a responsive UI with live filtering and investor dashboards supports 50+ user test cases
 - Designed a fully normalized schema (3NF) with 6+ entities; enforced referential integrity via PK/FK constraints.
 - Implemented 15+ analytics modules including ROI, cash flow, rent overages, and lease expiry using advanced SQL joins and PL/SQL procedures, triggers, cursors.

CERTIFICATIONS

- PyTorch for Deep Learning - Md Bourke - Udemy
- Beginning C++ Programming - From Beginner to Beyond - Udemy
- Generative AI Learning Path Specialization - Google Cloud
- LLM by Google Cloud - Coursera
- Neural Networks and Deep Learning - Stanford University
- Supervised Machine Learning: Regression and Classification - Stanford University

EXPERIENCE

Thapar ACM Student Chapter Tech and Marketing Executive - Core Member	Patiala, Punjab, India August 2024 – Present
<ul style="list-style-type: none">Led 5+ AI Web Dev workshops, increasing student engagement by 40% (200+ attendees).Fostered partnerships with industry experts to deliver guest lectures, improving the chapter’s outreach and visibility.	

ACHIEVEMENTS

- JEE Advanced Qualifier—Top 5% in India
- NCSC National Level Winner
- Patent Pending on Eco Brick—Tested at IIT Delhi for environmental Innovation