# B. TECH COMPUTER SCIENCE ENGINEERING (DATA SCIENCE)

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## EDUCATION:

| Degree | Institute | Board/University | CGPA/ Percentage | Year |
|--------|-----------|------------------|------------------|------|
| **B. Tech** | NMIMS University, Chandigarh | SVKM'S NMIMS | 3.27/4 | 2026 |
| **XII** | Govt. Model Senior Secondary School, Sector 32D, Chandigarh | CBSE | 74.2% | 2022 |
| **X** | Infant Jesus Convent School, Phase XI, Mohali | CBSE | 91.6% | 2020 |

## SKILLS:

| Domain | Details |
|--------|---------|
| **Programming & Languages** | Python, SQL |
| **AI/ML & Data Science** | Computer Vision, NLP, Recommender Systems, Data Wrangling, Power BI |
| **Frameworks & Libraries** | Flask, Django, FastAPI, LangChain, Gradio, Streamlit, OpenCV, Scikit-Learn, TensorFlow, NumPy, Pandas, NLTK, Pydantic |
| **Backend & DevOps** | RESTful APIs, Async Programming, Celery, Docker, AWS S3, Model Context Protocol |
| **Databases** | MySQL, Neo4j (Knowledge Graphs), Qdrant (Vector Database), Redis |
| **Tools & Platforms** | JIRA, Postman, Figma, Dagshub, n8n, Keka, Github, Git, Hugging Face |
| **Soft Skills** | Communication, Problem-Solving, Adaptability, Leadership |

## WORK EXPERIENCE / INTERNSHIPS:

**Software Development Intern**                                                        May '25 - Jul '25
Antier Solutions, Mohali, India
*Technologies Used: Django, Python, Celery, Redis, MySQL, gRPC, Docker, Gemini API, AWS S3, LangChain, Qdrant, Neo4j, Recommender Systems, Postman, Jira, Swagger, n8n, Boto3, Gradio, MCP, Keka, EWMS, Sequence & User Flow Diagrams*

- Architected an AI-powered video dubbing pipeline using Dockerized microservices, Celery, and Open Source Models for multilingual content.
- Engineered a personalized course recommendation engine for LERN360, utilizing SQL and RAG pipelines with Qdrant and Neo4j.
- Developed scalable containerized RESTful APIs and asynchronous task queues to support 1,000+ concurrent users.
- Deployed enterprise-grade LLM chatbots with LangChain and RAG for internal support tools.
- Automated social media workflows by integrating blockchain RSS feeds with LinkedIn via n8n.
- Created a Gradio interface for AI model testing, increasing accessibility for non-technical stakeholders.

**Digital Transformation Intern**                                                        May '24 - Jul '24
Pratham Education Foundation, New Delhi, India
*Technologies Used: Python, Flask, Shell Scripting, Linux (Ubuntu), Command Line, Network Configuration, HTML/CSS*

- Engineered an offline educational platform on Raspberry Pi 3B+, to serve over 500 learners in remote areas.
- Automated hotspot setup and management using Python and Shell scripts.
- Collaborated with cross-functional teams to understand data collection and analysis workflows.
- Researched AI-enabled translation solutions to address language barriers in rural workshops.

## KEY PROJECTS:

| Project Title | Duration | Platform / Tech Used | Brief Description |
|---------------|----------|----------------------|-------------------|
| **Bookstore Management System,** Link | Aug '25 | FastAPI, Pydantic, Uvicorn, HTML, CSS, JavaScript | A full-stack bookstore management platform with RESTful API with Data Validations and a responsive static frontend. Features include adding, updating, deleting, and sorting books (by title, author, price, genre), viewing statistics, and interactive API docs. Data is stored in JSON. |

| | | | |
|---|---|---|---|
| **Startup Idea Analyzer Agent, Link** | Jul '25 – Aug '25 | Python, LangGraph, LangChain, Gradio, MCP, SERP & social APIs | AI-powered research platform for automated startup analysis with competitor profiling, market data, and sentiment insights. Modular workflows reduced manual research by 70%. |
| **LearnSphere: AI-Powered eLearning Platform** | Aug '24 – Mar '25 (Hackathon Project) | Python, Flask, LangChain, Machine Learning, Data Wrangling and Modeling | AI-based eLearning solution that curates personalized roadmaps, generates assessments, and identifies at-risk students. Earned **3rd place at GDSC Technovate'25 Hackathon**. |
| **Movie Genre Classifier, Link** | Jan '24 – Apr '24 | Python, Scikit-learn, DVC (DagsHub), Hugging Face Spaces, NLTK | Trained an ensemble model (Linear SVC + Logistic Regression) on 54,000+ movie synopses with 85% accuracy. Applied NLP preprocessing and implemented reproducible training with DVC. |

**CERTIFICATIONS:**

**Google Data Analytics Specialization**, Google, Coursera
**Python for Data Science, AI, and Development**, IBM, Coursera
**Machine Learning using Python**, IBM, Coursera
**Design Thinking for Innovation**, University of Virginia Darden School of Business
**How to Network: Leading Yourself to Lead Others**, University of Michigan
**Data Visualization with Power BI**, Great Learning
**AWS Academy Graduate**, Amazon Web Services (AWS)

**ACHIEVEMENTS:**

*Hackathons and Competitions*
- **3rd Place – Technovate'25 Hackathon, GDSC, UIET Chandigarh (Mar '25)**
  Developed an e-learning platform leveraging GenAI to support at-risk students, competing against 100+ teams.
- **Top 30% – NMIMS Research Embedded Learning Symposium (Jan '25)**
  Presented a Student Performance Predictor project showcasing skills in predictive modeling and data analysis.
- **3rd Place – Catalyzing Concepts, ADVITIYA'24, IIT Ropar (Feb '24)**
  Demonstrated rapid analytical and presentation skills by delivering insights from a research paper with only 10 minutes of preparation.
- **Finalist – Startup Entrepreneur Series (Dec '23)** - MindScape
  Recognized as a finalist for innovation and business acumen in a competitive entrepreneurship challenge.

*Leadership and Workshops*
- **President, STME Technical Club, MATRIX** (Oct'22 – Aug'25)
  Led, hosted, and organized 30+ technical initiatives, hackathons & guest lectures.
- **Active Member, ACM Student Chapter** (since Nov'22)
  Engaged, organized and won in college level coding competitions, workshops, and peer learning.
- **Member, Placement Cell** (since July'25)
- **Mentee, Infosys Springboard - Pragati Path Cohort 3** (Feb '25)
  Completed a 12-week professional & leadership program with industry mentorship and a one-week campus immersion at Infosys Chandigarh DC.
- **Speaker, NMIMS University** (Aug '24)
  Delivered a Data Analytics workshop attended by 60+ participants, fostering practical learning.

*Publications*
- **Independent Writer, Substack (since Nov '24)**
  Published 7+ articles on AI, cognitive science, and productivity; achieved **2,000+ views** and **350+ subscribers**, building an active tech community.

*Volunteering*
- **Volunteer & HR Intern, Aashray Foundation (May '23 – Jun '24)**
  Coordinated and delivered educational workshops under the *Pathshala* initiative, benefiting 50+ students while managing volunteer logistics.

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