


# Balbir S Bhatia

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## EDUCATION

### Thapar Institute of Engineering and Technology

*B.E. in Computer Science and Engineering CGPA: 9.51*

Studying core subjects such as Data Structures, Operating Systems, Networking, and Cloud Computing

Patiala, Punjab, India

*Sep 2022 – May 2026*

### Mata Gujri Public School

*CBSE Class XII – PCM + CS Score: 98.2%*

Achieved 99% in Physics and Computer Science; school topper

New Delhi, India

*Mar 2021 – Jul 2022*

## EXPERIENCE

### Business Analysis Intern

*Affine*

Jun 2025 – Jul 2025

- Built a pricing optimization accelerator using H2O AutoML, improving pricing accuracy by 20% across benchmarked datasets.
- Designed an interactive Streamlit dashboard with user/admin roles, reducing analysis time for stakeholders by 35%
- Exported model results and pricing insights to PDF/CSV, enabling faster decision-making in pricing strategies

## PROJECTS

### Recroot.AI | *Next.js, Supabase, Vapi, Tailwind CSS, Razorpay*

*Apr 2025 – Jun 2025*

- Automated voice-based interviews using Vapi, cutting screening time by 50% for recruiters
- Integrated Razorpay payment gateway, enabling secure pay-per-interview transactions with real-time status handling
- Created candidate and recruiter portals, handling over 200 test interviews without failure
- Used Supabase for authentication, data storage, and interview session management
- **GitHub:** Recroot.AI **Live:** [recroot-ai.tech](#)

### Career Pathway | *Python, NLTK, Flask, spaCy*

*Feb 2025 – Mar 2025*

- Extracted skills from resumes with 95% precision using spaCy's Named Entity Recognition
- Increased relevance of job recommendations by 30% via semantic keyword classification
- Boosted email response rates by 40% using an AI-based outreach message generator
- **GitHub:** Career-Pathway

### Semantic Book Recommender | *Python, NumPy, Streamlit, NLTK, spaCy*

*Jan 2025 – Feb 2025*

- Improved recommendation accuracy by 22% using TF-IDF and semantic embeddings of book summaries
- Reduced load time by 35% with hybrid NLP and collaborative filtering techniques
- Achieved 28% higher click-through on recommendations by incorporating sentiment analysis
- **GitHub:** [book-recommender](#) **Live:** [bs-book-recommender.streamlit.app](#)

## TECHNICAL SKILLS

**Languages:** Python, R, C/C++, JavaScript

**Data Analytics Tools:** Tableau, Power BI, Spreadsheets

**Frontend Skills:** HTML, CSS, React.js, Next.js, Bootstrap, Tailwind

**Backend Skills:** Node.js, Express.js, Flask

**Databases:** MySQL, PostgreSQL, MongoDB, SQLite

**Libraries and Frameworks:** pandas, NumPy, Matplotlib, Seaborn, scikit-learn, NLTK, TensorFlow, Keras, Spacy, Langchain, Langgraph

**Core Subjects:** Data Structure and Algorithm, Operating Systems, Database Management System, Computer Networks, Cloud Computing, Corporate Finance

**Courses:** Google Professional Data Analytics Certificate by Coursera, Data Science and Machine Learning Course by Coding Ninjas, Overall 20+ Self Learning Courses Undertaken

## ACHIEVEMENTS

### Hackfest 2025

*2<sup>nd</sup> Runner-Up*

Secured 3<sup>rd</sup> place out of 100+ teams by developing an AI-powered full-stack solution in 36 hours

Feb 2025

*Patiala, India*

### CBSE Class XII Topper

*School Topper*

Scored 98.2% overall; received CBSE merit certificates in Computer Science and Physics

Mar 2021 – Jul 2022

*New Delhi, India*