

Balbir S Bhatia

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EDUCATION

Thapar Institute of Engineering and Technology

Bachelor of Engineering in Computer Science and Engineering (Current CGPA : 9.38)

Patiala, Punjab, India

Sept. 2022 – May 2026

Mata Gujri Public School

Class XII CBSE (98.2%, PCM+CS), School Topper

New Delhi, India

March 2021 – July 2022

TECHNICAL SKILLS

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

Data Analytics Tools: Tableau, Power BI, Spreadsheets

Frontend Skills: HTML, CSS, React.js

Backend Skills: Node.js, Express.js

Databases: MySQL, PostgreSQL, MongoDB

Libraries: pandas, NumPy, Matplotlib, Seaborn, scikit-learn, NLTK, TensorFlow

PROJECTS

Plant Disease Detection System | *Python, TensorFlow*



- Developed a robust plant disease detection system using TensorFlow, achieving accurate classification of various plant diseases by leveraging deep learning models.
- Optimized neural networks in TensorFlow to classify plant diseases from leaf images, demonstrating machine learning proficiency.

Movie Recommender System | *Python, NumPy, scikit-learn, NLTK*



- Developed a personalized movie recommender system using vectorization techniques in Jupyter Notebook, enabling precise recommendations based on user preferences derived from input movie selections.
- Implemented collaborative filtering in Jupyter Notebook to generate top movie recommendations, demonstrating expertise in data preprocessing and algorithm implementation.

CareHomes | *Node.js, Express.js, PostgreSQL*



- Developed and optimized backend infrastructure for Project CareHomes, ensuring secure storage and retrieval of patient medical histories.
- Identified and resolved frontend issues, enhancing user experience, and integrated a seamless appointment booking system for efficient scheduling with doctors.

VOLUNTEERING EXPERIENCE

URJA

Event Management: Assisted in organizing artist nights and fest events, ensuring smooth execution and participant engagement.

Creative Computing Society

Publicity: Contributed to publicity efforts and supported the organization of HackTU 4.0 hackathon, enhancing event visibility and participation.

ACM Thapar Chapter

Workshops: Attended and contributed to various workshops, facilitating knowledge sharing and community building.

CERTIFICATIONS

- I have completed 12+ self-learning courses from platforms such as Coursera, Coding Ninjas, and CodeHelp on Data Science and Machine Learning, DSA and Full Stack Development.

Complete List of Certifications

Excel Sheet: [Link](#)

ACHIEVEMENTS AND HONORS

- Received merit scholarship from Thapar Institute of Engineering and Technology for high CGPA.
- Awarded CBSE merit certificate for scoring 100 in Computer Science and Physics.