TANISHTTHA SEHGAL

B.Tech. - Computer Engineering

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PROFESSIONAL SUMMARY

Motivated Computer Engineering student with a strong interest in Artificial Intelligence, Machine Learning, and Software Development. Skilled in Python, C++, Deep Learning, Computer Vision, and modern web technologies. Experienced in building AI-powered applications and full-stack projects using React, Flask, and FastAPI. Seeking opportunities to apply and expand my technical skills while contributing to innovative, impactful, and real-world AI solutions.

KEY EXPERTISE

Python | CPP | JavaScript | SQL | HTML | CSS | React.js | Git | Github | Machine Learning | Deep Learning | Computer Vision | Natural Language Processing | Flask | Data Structures | OOPs | DBMS

EDUCATION

J.C Bose University of Science & Technology, YMCA, Faridabad — 2023 - 2027

B.Tech. - Computer Engineering | CGPA: **8.82** / **10**

Senior Shreeram Model School Sector 21-A — 2023

12th | CBSE | Percentage: **88.40** / **100**

Vrinda International School — 2021

10th | CBSE | Percentage: **90.80** / **100**

PROJECTS

Autism Spectrum Disorder (ASD) Prediction & Support System — 15 Oct, 2025 - 15 May, 2026

Mentor: Dr. Ashlesha Gupta | **Team Size:** 1

Key Skills:

Python | Flask | React.js | Tailwind CSS | OpenCV | YOLOv8 | Deep Learning | Machine Learning | Natural Language Processing (NLP) | LLaMA 3

Project Link: http://github.com/Tanishttha/AutiScan

AI-powered autism screening platform combining computer vision, NLP, and deep learning for real-time behavioral analysis and therapy recommendations. Live: https://autismbuddy.vercel.app/

- Trained and integrated YOLOv8 + facial landmark detection models for real-time eye-tracking and behavioral signal extraction in children with ASD
- Built an NLP speech interaction module using Groq LLaMA 3, enabling AI-driven therapy conversations and personalized recommendations
- Designed a full-stack platform (Flask backend + React.js + Tailwind CSS) with real-time analytics dashboards and progress tracking

Smart Navigation Assistant for Visually Impaired Users — 02 Feb, 2026 - 02 Apr, 2026

Team Size: 1

Key Skills: Python | Flask | Firebase | ML | Rest APIs

Project Link: https://github.com/Tanishttha/NavAssist

- Architected a real-time speech-to-intent pipeline using Web Speech API and ML-based intent classification, enabling hands-free navigation for visually impaired users. Live : https://navassist.vercel.app/
- Built RESTful Flask APIs integrated with Firebase for authentication, session management, and real-time data synchronization.
- Deployed the application on Vercel with GitHub Actions CI/CD and implemented WCAG 2.1-compliant accessibility features for an inclusive user experience.

Fake Job Postings Detection System — 14 Mar, 2025 - 15 May, 2025

Mentor: Dr. Amita Arora

Key Skills: Python | Scikit-learn | Machine Learning | NLP | Pandas | NumPy

Project Link: https://github.com/Tanishttha/fake-job-detection

- Developed an end-to-end NLP-based classification system to detect fraudulent job postings using ensemble machine learning models. Live : https://fake-jobdetect.vercel.app/

 Implemented TF-IDF vectorization and ensemble techniques, including Random Forest and Gradient Boosting, for job fraud detection.
 Engineered features from job descriptions, metadata, and URL patterns to enhance detection robustness and classification performance.

ACHIEVEMENTS

- 1st Place - Tech & Ties Literary Competition; 1st Place - India Inked Poetry Competition; 2nd Place - Humara Sanvidhan Speech Competition; Finalist - National Environment Youth Parliament 2025; Featured Speaker - Surajkund International Crafts Mela 2025

ASSESSMENTS / CERTIFICATIONS

TCS ION Career Edge - Young Professional

Provider: Tata Consultancy Services

Key Skills: Communication Skills ,Soft Skills ,Telephone Etiquette

POSITIONS OF RESPONSIBILITY

Secretary – University Computer Centre & Digital Affairs, YMCA

Coordinated digital initiatives, student engagement activities, technical events, and expert sessions at the university level.

Computer Department Coordinator – Udaan, Training & Placement Cell

Managed placement coordination activities, including organizing recruitment drives, facilitating student communication, and supporting training and placement initiatives.

Member – Ananya The Unparalleled, Literary & Debating Society

Actively participated in literary, debating, and cultural activities at both university and external platforms.

PERSONAL INTERESTS / HOBBIES

- Poetry Writing | Teaching & Mentoring | Public Speaking

WEB LINKS

- Github - https://github.com/Tanishttha

PERSONAL DETAILS

Gender: Female
Marital Status: Single
Current Address: 2928 A Gali No 4 Behind Sunil High School, Sgm Nagar Faridabad, Faridabad, Haryana, India - 121001
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Date of Birth: 02 Nov, 2005
Known Languages: English , Hindi
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