TANMAY SINGH

Computer Science And Technology

CONTACT

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About Me

I'm Tanmay Singh, a Computer Science undergraduate passionate about frontend development, AI, and building user-focused solutions with React, Python, and SQL. A committed athlete and active club member, I value discipline, collaboration, and continuous learning—both in tech and beyond.

Clubs & Societies

MLSC (Microsoft Learn) – Core Member; contributed to AI and web development events
GirlUp – Core member; engaged in outreach and awareness initiatives

Sports & Athletics

Football – Institute Team Player
Track & Field – Active Athlete
Swimming - Recreational swimmer

Hobbies
Travelling
Trekking
Playing sports
Enjoying fiction

EDUCATION

Thapar Institute of Engineering and Technology, Patiala, Punjab.   (07/2023 - Present)
BTech in Computer Science and Engineering | CGPA: 9.12

PROJECTS

Skills Extraction from Job Descriptions.   ✎ GitHub (06/2024 - 07/2024)
 • Built a system using **Python, Selenium, Scrapy,** and **spaCy** to automatically extract relevant technical and soft skills from scraped job listings.
 • Preprocessed job descriptions using NLP techniques and structured the output in **CSV** and **JSON** formats for further analysis.

OCR-based Text to Speech Assistant.   ✎ GitHub (04/2025)
 • Developed an AI assistant to detect text from images and convert it to voice using **OpenCV, pytesseract,** and **pyttsx3.**
 • Integrated **Google Text-to-Speech** and **SpeechRecognition** to support multilingual voice input/output.
 • Targeted for accessibility and educational use, enabling real-time text reading for visually impaired users.

Image Classification Using CNN (Dogs vs. Cats).   ✎ GitHub (09/2023 - 10/2023)
 • Designed a **CNN** model using **TensorFlow** and **Keras** to classify dog vs. cat images with over 90% accuracy.
 • Implemented data augmentation, training/validation/testing workflows, and performance analysis using **Matplotlib.**

Sustainable Harvest Solutions – Agricultural DBMS System.   ✎ GitHub (03/2025)
 • Built a complete farm subsidy and crop cost tracking system using **Oracle SQL, PL/SQL,** and **ER modeling.**
 • Created stored procedures, cost calculation functions, validation triggers, and queries for subsidy eligibility and cost prediction.

EXPERIECE

Data Science Lab – IIIT Delhi   **(06/2024 - 07/2024)**
Data Curation & Enrichment Intern
 • Worked under the guidance of **Prof. Dr. Vikram Goyal**, CSE Department, IIIT Delhi.
 • Contributed to the **Taxonomy Project**, focusing on **Data Curation** and **Data Enrichment** modules.
 • Demonstrated strong **technical proficiency,** attention to detail, and the ability to handle and refine large datasets.

SKILLS

Languages: Python, C, C++, JavaScript, HTML, CSS, Go, Rust
Frameworks/Libraries: ReactJS, Tailwind CSS, TensorFlow, Keras, scikit-learn, OpenCV, NumPy, Pandas
Databases: MySQL, MongoDB, Oracle SQL, PL/SQL
Soft Skills: Leadership, Collaboration, Creative Problem-Solving, Adaptability
Languages Spoken: English (Professional), Hindi (Native), French (Basic)

REFERENCE

- **Dr. A.K Verma**
Professor, Computer Science, Thapar Institute of Engineering and Technology
✉️ akverma@thapar.edu

- **Dr. Vikram Goyal**
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