

Svastik Kanwar

Undergraduate Final Year - Computer Engineering

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Github

LinkedIn

Portfolio

Education

National Institute of Technology, Kurukshetra

Bachelor of Technology in Computer Science (CGPA: 8.75 / 10.00)

Aug 2021 - May 2025

Kurukshetra, Haryana

K-KEY Public School

Class: XII HP Board of senior secondary education (Percentage: 87.00 / 100.00)

Apr 2018 - May 2020

Himachal Pradesh

DAV Public School

Class: X CBSE (Percentage: 94.50 / 100.00)

Apr 2016 - Apr 2018

Himachal Pradesh

Experience

IIT-Jammu

Research Intern

May 2024 - Jul 2024

Jammu, Jammu & Kashmir

- Developed a machine learning model to analyze social media sentiment, achieving an accuracy rate of 95% to judge public response to PR campaigns.
- Implemented natural language processing (NLP) techniques to categorize social media posts, increasing content classification efficiency by 40%.
- Collaborated with faculty to develop a real-time analytics dashboard, providing instant insights to flag fake news and trends with an accuracy of 89%.

Suraksha One

Software Engineer Intern

May 2023 - Aug 2023

Bangalore, Karnataka

- Developed a credit score prediction model with an accuracy rate of 85%, based on customer data and clustering results, which improved loan approval efficiency by 20%.
- Developed a mobile app on the Flutter framework, which increased access to agricultural information
- Designed a scalable database schema to optimize and reduce the query response time by 30%.
- Implemented RESTful API endpoints to facilitate seamless communication between the mobile app and the server, reducing data latency by 40%.

Projects

Landscape Change Detection | Python, TensorFlow, Keras, OpenCV

[Repository](#)

- Developed convolutional neural networks (CNNs) to analyze satellite imagery, achieving 92% accuracy in identifying significant changes over time.
- Implemented data augmentation techniques like random flipping, increasing training dataset variability by 50%.
- Considered two primary use cases: 1) Buildings and 2) Deforestation.

Catalog Cum Shopping app | Flutter, Firebase, Dart, Django

[Repository](#)

- Implemented sorting and searching algorithms. Optimized it for a smooth experience.
- Populated the app with real-time data and integrated RESTful APIs, enabling the app to fetch product information, prices, and availability from a remote server

Real-Time Chat Application | React, Node.js, Socket.io, Express, MongoDB, Docker

[Repository](#)

- Developed highly responsive real-time chat application using **React Node.js** with **Express**
- Utilized **Socket.io** for efficient real-time, bidirectional communication .
- Implemented backend features like user authentication, chat room creation, and message broadcasting, ensuring **99.9% uptime** and high performance.
- Optimized database interactions using **MongoDB**, achieving **35% faster query responses**

Technical Skills

Languages: CPP, Python, C, JavaScript, SQL, Dart, Java, TypeScript

Technologies: React.js, Flask, Ruby on Rails, Express.js, TensorFlow, PyTorch, Bootstrap Node.js, Android SDK, Git, LATEX

Concepts/Technologies: Operating System, Machine Learning, Neural Networks, API, Networking, Full Stack development

Achievements

NTSE (National Talent Search Exam) STAGE-1 Scholar 2018.

JEE Mains Secured an All-India Rank 5645, JEE Mains 2021 among over 1 million aspirants.

Competitive Programming Pupil in **Codeforces**, Top 15% on LeetCode solved 2000 problems over both platforms.

SIH 2023 Finalist: Developed a solution prototype for problem "Change detection due to human interference" A ISRO Project