Svastik Kanwar
Undergraduate Final Year - Computer Engineering

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Education

National Institute of Technology,Kurukshetra	Aug 2021 - May 2025
Bachelor of Technology in Computer Science (CGPA: 8.88 / 10.00)	*Kurukshetra, Haryana*
K-KEY Public School	Apr 2018 - May 2020
Class: XII HP Board of senior secondary education(Percentage: 86.8 / 100.00)	*Himachal Pradesh*
DAV Public School	Apr 2016 - Apr 2018
Class: X CBSE(Percentage: 94.50 / 100.00)	*Himachal Pradesh*

Experience

Ernst & Young — June 2025 – current
Software Engineer — *Bangalore, Karnataka*
- Full stack developer in Internal Products Engineering Team. Skills: C#, Python , Angular, Java, Backend, SQL.

IIT-Jammu — May 2024 – July 2024
Research Intern — *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%.

Suraksha One — May 2023 – Aug 2023
Software Engineer Intern — *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
- 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*   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 | *NextJS, Neural Network ,Express, Convex, ZegoCloud*   Repository
- Made a Real-time chat application using **Next.js**, integrated with **Convex** and **Zego**, achieving **25% faster communication and media streaming** compared to traditional setups.
- Implemented webhooks for real-time updates, reducing latency by **40%**, ensuring near-instantaneous message delivery and interaction.
- Added a **fake news detection model** within the chat.(fine tuned model)
- Utilized **Clerk** for user authentication.

Technical Skills

Languages: CPP, Python, C, JavaScript, SQL, Dart, TypeScript
Technologies: React.js, Flask, Ruby on Rails, Express.js, TensorFlow, PyTorch, Bootstrap Node.js, Android SDK, Git, LATEX
Concepts/Course Work: Operating System, Machine Learning, Neural Networks, API, Full Stack development,Data Engineering

Achievments

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 11% 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)**