



PRIYANKA SONI

Bachelor of Technology
Computer Science & Engineering
Punjab Engineering College

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Professional Skill

- **Programming Languages:** C++, Python, Javascript, HTML, CSS, TypeScript
- **Computer Fundamentals:** Data Structures, Algorithms, OOPS, Operating Systems, Computer Networks, DBMS
- **Machine Learning:** Numpy, Pandas, Seaborn, Scikit-learn, Regression, Classification, Clustering, CNN
- **Web Development:** Next.js, Tailwind CSS, Bootstrap, Flask, React.js

Experience

- **Researched** on 'Making AI Trustworthy for Healthcare'.

Comprehensive **research paper** demystifies AI in healthcare, exploring its capabilities, dispelling myths, and proposing strategies for optimizing its valuable impact in the healthcare industry.

Education

Degree	Institute	CGPA/Percentage	Year
B.Tech CSE	Punjab Engineering College	8.93	2025
Senior Secondary	Bal Niketan Model Sr. Sec. School	92.8%	2021
Matriculation	Hansraj Public School	95.6%	2019

Projects

Sentiment Analyser

- **Deep Neural Networks, TensorFlow, Keras, Flask, HTML, CSS, JavaScript**
- Developed a sophisticated machine learning model designed to analyze sentiments from audio inputs
- The system provides an output encompassing eight distinct emotion with their respective percentages

Knee OA Detector

- **CNN models** : Resnet Xception, Resnet50, Resnet Inception, VGG 16
- **Implemented** 4 models with complex preprocessing techniques for knee osteoarthritis detection and classification
- **Employed** data augmentation, CLAHE contrast enhancement, noise removal, and normalization

Car Showcase Website

- **Stack: React, Next JS 13, TypeScript, Tailwind CSS**
- **Built a car catalogue** and **integrated complex search** and filtering capabilities
- Utilized custom filter, combobox and modal element and rendered the web application mobile responsive
- **Designed dynamic pop up boxes** and custom filtering options.

Career Website

- **Python-Flask, Bootstrap, HTML, CSS**
- Developed a platform with smooth user interface to apply for job positions at jovian career.
- **Implemented** feature to connect to jovian courses for roles and added buttons with functional mail-to links

Positions of Responsibility

- **Executive Body Member, ACM CSS** (coding society PEC)
Guided and **mentored** over 50+ juniors, orchestrating multiple skill-building sessions and resolving doubts
Led a team of 10 in organizing monthly coding challenges, resulting in a 50% increase in society membership.
- **Core executive body member, SCC** (Student Counselling Cell)
Supervised the club's day to day functioning, part of **peer support group**
- **Joint head marketing**, PECFEST, PECMUN, Trivium and Spectrum, brought three **sponsorships** worth **Rs 40,000** for the events and **led an active team of juniors**

Achievements

- **Excellence certificate** in Data Structures and Algorithms in C++, Coding Ninjas
- **Secured position** in **top 10** of Code Rush organized by PEC ACM CSS competed against 200+ participants
- **Qualified** to attend **Amazon ML Summer School 2023**
- **Amazon ML Challenge:** Competed with **25,000+** students from various colleges and gained hands-on experience in building real world solutions
- **Participated** in national level debating tournaments at BITS Pilani and NSUT with 1000 + participants

Volunteer Work

- Parivartan **NGO** volunteer work during semester break
- **Taught 100s of unprivileged students** through NSS Aabha scheme
- Active member of **WICCI** (WOMEN'S INDIAN CHAMBER OF COMMERCE AND INDUSTRY) **global education council**