



Keshav Arora

Bachelor of Technology
Computer Science and Engineering
Punjab Engineering College, Chandigarh

+91-9056016144
keshavarorasci@gmail.com
keshavarora.bt22cse@pec.edu.in
GitHub
LinkedIn

EDUCATION

Degree	Institute	Board / University	Year
B.Tech	Punjab Engineering College, Chandigarh	PEC Chandigarh	2022-2026
Senior Secondary	Shri Ram Ashram Public School	CBSE	2022

EXPERIENCE

- Supple Tek Industries Pvt Ltd** Dec 2023 - January 2024
Buisness Analytics Intern Amritsar
 - Led and spearheaded contributions to a comprehensive business analysis project, utilizing SQL Server and Power BI.
 - Executed data-driven insights by proficiently leveraging SQL Server for efficient data querying and manipulation, ensuring accurate and actionable analysis
 - Demonstrated effective coordination with supervisors and team members, fostering smooth project execution
- IIT Ropar** May 2024 - Ongoing
Research Intern Hybrid
 - Conducting research on reinforcement learning to address the forgetting problem in dynamic environments.
 - Utilizing Shapley values to analyze function approximation errors in training Deep Q-Network (DQN) agents.

PROJECTS

- A20 Blood Bridge** Github
Web Platform to bridge gap between patients and donors
 - Led a team of 6 in developing a blood donation platform using HTML, CSS, AJAX, and JavaScript for frontend
 - Utilized Node.js and Angular for backend development, enabling seamless communication between users and blood banks, efficient blood requests, and timely notifications to previous donors
 - Implemented SQL for the database management system, ensuring effective tracking of available blood units in blood banks.
 - Developed a Hematologist AI Chatbot trained on blood pathophysiology literature, surpassing ChatGPT in providing accurate responses to inquiries about blood disorders. Leveraged LLAMA2 within a 16-hour timeframe.
- Multimodal AI Assistant** Github
Multimodal AI Assistant Image processing which uses audio to text
 - Developed a user-friendly personal assistant interface with voice commands, image recognition, text-to-speech, and speech-to-text capabilities using Whisper and Gradio
 - Enhanced seamless communication through natural language processing
- Diabetic Retinopathy Detection** Ongoing Research Project
Aims to segment blood vessels which can be further used to detect multiple diseases
 - Implemented U-Net with ResNet34 and EfficientNet-B7 encoders, achieving 96% accuracy and 98% specificity
 - Developed a PIX2PIX GAN with UNET and UNET++ generators independently, using the FIVES dataset comprising over 600 images to generate highly accurate masks for fundus images.

TECHNICAL SKILLS

- Programming Languages:** C++, Python
- Frameworks:** Numpy, Pandas, Tensorflow, Pytorch, Langchain, HTML, CSS, Javascript
- Additional Skills:** Bug Bounty, Ethical Hacking & Linux

POSITIONS OF RESPONSIBILITY AND EXTRACURRICULAR

- Marketing Subhead** Aug 2023 - Nov 2023
PECFEST 2023
 - Engaged with over 100 MNCs, startups demonstrating unwavering commitment to secure collaborations and managed to convert a sponsorship deal
- Implementation Body Lead** Nov 2022 - Ongoing
ACM-CSS
 - Conducted Workshops for 100+ students on Intro to Cybersecurity and Linux, Realms of Dark Web and Web Exploitation
 - Organised 5 techincal events in PECFEST 2023 and Orientation 2023
- Open Source Contributor** Jan 2024 - Ongoing
JWOC 2024 , GSSOC 2024
 - Worked on 10+ projects in computer vision and natural language processing
 - Ranked among the top 30 contributors in the JWOC open-source community out of 250+ participants

ACHIEVEMENTS

- PEC-CTF**, Winner of PEC-CTF 2022, conducted across college in the first year itself 2022
- Astronomix Hackathon**, Secured 1st Runner-Up in a hackathon with over 30 teams all over tricity. 2023
- Amritsar District Chess Competition**, Won championship 3 times as captain of the school team out of 50 teams 2018
- Sameen Singh International Chess Tournament**, Won cash prize out of 500+ participants [FIDE Rating 1420] 2019