

# Harishankar Kumar

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## EDUCATION

- **Thapar Institute of & Engineering Technology** Patiala, Punjab  
*Bachelor of Technology - BTech; 8.6 CGPA* 2020 – 2024
- **Kendriya Vidyalaya No 2** Ferozepur Cantt, Punjab  
*XII, PCM; 95% Boards* 2007 – 2020

## OPEN SOURCE AND VOLUNTEERING

- **Google Summer of Code** Remote, Remote  
*Contributed to ScummVM under GSoC'23 - [Project link](#)* May 2023 - Sept 2023
  - **Audio Mixers and Graphics:** Added support for new audio formats and improved frame rendering algorithms including optimizations and pixel-by-pixel drawing.
  - **BuildBot (CI/CD):** Fixed deployment warnings, memory leaks and added support for screenshot matching between subsequent builds.
  - **Compiler Optimization:** Fixing bugs in compilers and adding edge cases in code, Compiling Lingo to C++ using Yacc Parser.
  - **Debugging:** Using tools like GDB, and ASAN to debug and fix memory leak, segmentation faults and debugging any bugs in code.

## EXPERIENCE

- **Hobbyist Developer (Android)** Remote  
*Indie* Lifetime
  - **Xenone for Blockman Go:** Developed a highly successful utility tool for the game Blockman Go, with 250k+ installations and revenues exceeding 80,000 Rs (\$1,000). [View on Play Store](#)
  - **Vortex Connect - Online Multiplayer Solution:** Developed lobby-based solution for Minecraft servers. 16k installs with 1k+ active users and testers.

## PROJECTS

- **Finfy:** A financial training application to help young adults learn about **financial literacy**, It supported stock market simulation, budgeting, and other features. (Django, Django REST, BeautifulSoup)
- **BubbleBoxModel:** A set of jupyter notebooks that allows to identify speech bubbles in manga panels, It can segment image and support language translation as well. (Tensorflow, Keras, Pytorch) [Link \(GitHub\)](#)
- **FaceAI:** A face recognition system that compares an image against single/multiple images. (Python, OpenCV, InsightFace, ArcFace) [Link \(GitHub\)](#)
- **Contexto:** NLP project analyzing millions of tweets on a specific topic, providing insights for policymakers, market analysis, and trend identification. **Published a research paper** on the same! (Python, Pandas/Dask, Numpy)

## HONORS AND ACHIEVEMENTS

- **HackTU 2023 Winner:** Collaboration of Societies, Awarded 20k rupees for developing Finfy financial training app
- **SIH' 2022 Winner:** Government hosted biggest student hackathon promoting problem-solving through technology
- **Maketahon 3077 (2021) Winner:** Hosted by Microsoft Learn Student Chapter (MLSC) Society
- **Hackclipse 2021 Winner:** Created Pustika, book reselling platform that is my first university hackathon experience

## MISCELLANEOUS

- **Content Analysis of Twitter conversations associated with Turkey-Syria Earthquakes**  
*Research paper published under ICDAM 2023 Conference, analysing turkey-syria earthquakes by tweets*
- **Data Structures and Algorithm**  
*Solved more than 400+ questions on various platforms, profiles: leetcode, geeksforgeeks, codingninjas*