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**: Used tools like GDB, and ASAN to debug and fix memory leak, segmentation faults and debugging any bugs in code by line-by-line analysis.
  - **Virtual Machine and Simulation**: Improved support for new games while fixing various bugs in simulator.

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. Created using Android Native (Java).**View on Play Store**

- **Content Writing** — Remote
  Blogging/Posts — *Lifetime*
  - **Content Writing**: Writes technical and non technical blogs, including tutorials, real life experiences, step-by-step walkthrough, demo/proof of concept work etc! **Blog Link**

PROJECTS

- **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)**
- **Contexto**: Conducted NLP project analyzing millions of tweets on a specific topic, providing valuable insights for policymakers, market analysis, and trend identification. Published a research paper on the same! (Python, Pandas/Dask, LDA, BERT)
- **FaceAI**: A face recognition system that compares an image against single/multiple images. (Python, OpenCV, InsightFace, ArcFace) **Link (GitHub)**

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
- **Hacklipse 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