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

- **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)**
- **LogSecure+**: Automated compliance breach detection system using large language models for multi-source log analysis. Aims to ensure organizational adherence to constantly evolving compliance and regulatory policies. (Python, LangChain, LLMs)

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