

# Harishankar Kumar

[Linkedin](#), [GitHub](#)

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## EDUCATION

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- **Thapar Institute of Engineering & Technology** Patiala, Punjab  
*Bachelor of Technology - BTech; 8.72 CGPA* 2020 – 2024
- **Kendriya Vidyalaya No 2** Ferozepur Cantt, Punjab  
*XII, PCM; 95% Boards* 2018 – 2020

## OPEN SOURCE AND VOLUNTEERING

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- **Google Summer of Code** 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:** Fixed 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

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- **AI Search (Neurotask AI Private Limited)** Remote  
*Co-Founder - AI Search: Uncovering User Intents, Crafting Human-Centric Search - [Landing Page](#)* Oct 2023 - Present
  - **Fullstack Engineer:** Developed ReactJS frontend with 30+ REST API endpoints using FastAPI
  - **Search Optimization:** Implemented AI techniques like vector embeddings and researched NLP methods to optimize search results, Improved NDCG score by 15%
  - **Generative AI:** Developed GenAI pipelines and used GPT's to power search results and core components, Improving results by 40%, Developed search result summarizers, query to filters generator, and more
  - **DevOps and Deployment:** Maintained dev/prod environments and dockerized 8+ microservices with scripts for one-click deployments
  - **Logging and Telemetry:** Used Signoz and OpenTelemetry to monitor and log thousands of requests per day from 400+ functions, Generating insights and improving performance

## PROJECTS

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- **Project Report Generator:** A utility app to generate end-semester project reports for submitting in university, Generated **100+ semester reports**, with more than **200** registered users. (LLM, Promptflow, Latex) [Link \(Site\)](#)
- **MeraAadhar:** An application where user can book operators for doorstep Aadhar updation. Winner of Smart India Hackathon 2022 (Team SHARK), **awarded 1 lakh rupees**. (Flutter, Docker, Django, FastAPI) [Link \(Linkedin Post\)](#)
- **Xenone:** Utility app for popular game Blockman Go, Over **500k+** downloads on Play store, Generated revenue of more than **1k+** dollars (Android Native, Reverse Engineering, Fiddler) [Link \(Playstore\)](#)

## HONORS AND ACHIEVEMENTS

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- **HackTU 2023 Winner:** Collaboration of Societies, Awarded 20k rupees for developing Finfy financial training app
- **Smart India Hackathon 2022 Winner:** Won 1 lakh rupees for doorstep updation Aadhar app, Largest govt hack
- **Maketahon 3077 (2021) Winner:** Largest intra-university hack, hosted by Microsoft Learn Student Chapter Society
- **Hacklipse 2021 Winner:** Created Pustika, book reselling platform that is my first university hackathon experience

## MISCELLANEOUS

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- **Content Analysis of Twitter conversations associated with Turkey-Syria Earthquakes**  
*Published a research paper at ICDAM 2023 by analyzing over 1,000,000 tweets on Turkey-Syria earthquakes*
- **Data Structures and Algorithm**  
*Solved more than 400+ questions on various platforms, profiles: [leetcode](#), [codingame](#), [codeforces](#)*