

# 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

- **AI Search** Remote  
*Co-Founder - AI Search: Uncovering User Intent, Crafting Human-Centric Search* Oct 2023 - Present
  - **Fullstack Engineer:** Developed ReactJS frontend with secure REST APIs for business layer logic, enabling seamless one-click deployments and other features using FastAPIs and MongoDB.
  - **RabbitMQ/Microservices:** Implemented an event-driven architecture with decoupled services for search, scraping, background tasks, and more. Included essential features such as logging, monitoring, and scalability.
  - **Web Scraping Service:** Designed a web scraping service using scrapy servers and scrapyd, synchronized with the event-driven architecture. Supports cron jobs and on-demand scraping.
  - **Search Optimization:** Enhanced search capabilities by feeding crawled data into Elasticsearch. Implemented AI techniques like vector searching/embedders and researched NLP methods to optimize search results.
  - **DevOps and Infrastructure:** Dockerized the entire application stack and created scripts for one-click deployments to servers. Maintained agile development environments for efficient development processes.

## PROJECTS

- **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, Django, FastAPI) [Link](#) ([Linkedin Post](#))
- **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)
- **WazirX Simulator:** A **crypto market simulator** with customizable trade strategies, used to test impact of specific patterns of trading based upon real market data. (Django, BeautifulSoup) [Link](#) ([GitHub](#))
- **Pustika:** A **book reselling platform** for getting cheap second handed books, included buying and selling and a portal to advertise current stock. (Flask, SQLAlchemy) [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