Akash Chaudhary
Human-Centered Technologist

🌐 **akash-1992.github.io** | portfolio

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HCI design researcher, developer of audio systems and explorer of psychology based UI/UX studies.

EDUCATION

Indian Institute of Technology   **Roorkee, India**
Bachelor of Technology, Production and Industrial Engineering   Aug 2011 - May 2015

Advisor : Dr. Apurbba Kumar Sharma

B.Tech Project : Processing of Materials with Microwaves for Joining Application

RESEARCH

Designing an Interface to Teach Context-based Intonations   IMWUT, Nov 2019 [participated]
                                                                                   IMWUT, Feb 2020 [under review]

Developed a voice-input smartphone app in four design iterations

Chaudhary, A., Belani, M., Maheshwari, N.

Advisor : Dr. Aman Parnami

Exploring Digital Well-Being In Online Video Streaming Platforms   CHI, Sep 2019 [participated]
                                                                                   [undergoing changes]

Designed user interface elements that could potentially reduce digital addiction

Chaudhary, A., Saroha, J., Monteiro, K.

Advisor : Dr. Aman Parnami

GUI Enabled Data Sonification   [ongoing]

Devised a python toolbox for manipulation with MIDI and OSC messages

Chaudhary, A., Joshi, B., Adhikary, A., Sharma, P.

Advisor : Dr. Timothy Scott Moyers Jr.

WORK EXPERIENCE

Research Associate | Weave Lab   Jan 2018 - Present

- Working as a Research Assistant at Weave Lab.
- Active participant in the weekly group meetings in Human-Centered Design Department, IIIT-Delhi.
- Made submissions to two top tier conferences - CHI and IMWUT, as the lead author.
- Worked on para-linguistics, voice-input, iterative design and digital well-being.

Member | ILIAD Lab
Jan 2019 - Present

- Member of the music and sound lab at Human-Centered Design Department, IIIT-Delhi.
- Built a GUI for artists that enabled data sonification and transfer of MIDI onto various outputs channels, like Reaper and SuperCollider.

Research Intern | Verisk
May 2019 - Sep 2019

- Performed data analysis on the Q/A model of BERT in NLP.
- Found out parameter accuracy on domain-specific datasets.
- Responsible for processing and cleaning the deployment-ready code of the model in python.
- Presented research insights from proceedings of the 57th Annual Meeting of the Association for Computational Linguistics (ACL).

First employee | Derbii
Nov 2015 - Dec 2017

- Responsible for managing investor relations.
- Brought three prominent investors on the table for a pre-series A funding round.
- Handled product management and ensured quality in customer experience.
- Involved directly in strategizing business growth, marketing and developing financial projections.

SKILLS

Hands-on coding

- Proficient in Python, C, HTML, CSS, JavaScript. Certified through Harvard course - CS50: CS50's Introduction to Computer Science (edX).
- Knowledgeable in data structures and algorithms. Certified through Stanford courses - Divide and Conquer, Sorting and Searching, and Randomized Algorithms (Coursera), Graph Search, Shortest Paths, and Data Structures (Coursera), Greedy Algorithms, Minimum Spanning Trees, and Dynamic Programming (Coursera), Shortest Paths Revisited, NP-Complete Problems and What To Do About Them (Coursera).
- Informed in Digital Signal Processing. Have done a non-degree course from EPFL (Coursera).

Soft skills

- Reading - First author at two A* conference submissions.
- Communication and leadership - Led two teams towards two conference submissions with effective collaborations.

English language proficiency - TOEFL iBT

- Total - 100
- Reading - 25
- Listening - 24
- Speaking - 27
- Writing - 24

EXTRA-CURRICULARS

Sports

- Gold medal in basketball at undergraduate level in 4th year for Indian Institute of Technology, Roorkee at Inter-IIT sports fest.
- Silver medal in basketball at undergraduate level in 2nd year for Indian Institute of Technology, Roorkee at Inter-IIT sports fest.
- Runners up in football in inter-year sports competition at undergraduate level in 3rd and 4th year.