

curriculum vitae of

Pankaj Garkoti

✉ garkotipankaj@gmail.com
☎ +91 87663 35252

EDUCATION

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|-------------|--------------------|--------------------------------|
| 2019 – 2022 | B.Sc. Physics (H.) | DELHI UNIVERSITY, NEW DELHI |
| 2017 – 2019 | Senior Secondary | HEERA PUBLIC SCHOOL, NEW DELHI |

TECHNICAL SKILLS

- **Development** Python, FastAPI, Django, JavaScript, React.js Vue.js, Swift / SwiftUI, Dart / Flutter and others...
- **AI Model Fine Tuning**, Prompt Tuning, Decision Trees, LangChain, LlamaIndex, FAISS, Chroma.
- **Cloud** AWS, GCP, CI/CD, Shell Scripting, Docker, Netlify / Vercel etc.

EXPERIENCE

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|---|--------------------|-----------------|
| Apr. 2023 – May 2025 | Mavex AI, Gurugram | CO-FOUNDER, CTO |
| Mavex AI is an AI based productivity tool for knowledge workers. It came out of our previous venture called Hear Us. During my time at Mavex AI, I did the following: | | |
| <ul style="list-style-type: none">• Managed a team of engineers, interns and designers, driving innovation and product delivery.• Led the technical vision and development of Mavex AI's platform through multiple product iterations such as:<ol style="list-style-type: none">1. A drag and drop task list to calendar blocking system. This was accompanied by a WhatsApp based AI bot for quick actions.2. A hub for multiple AI Agents fine tuned for different tasks. Including dynamically rendered UIs in the agent response for taking complex user inputs.3. An AI powered markdown prose editor for the content creation agent in the above system.4. A Chrome Extension offering quick access to the agents from anywhere.5. An AI bot which can be CC'd into email threads to facilitate scheduling. This is accompanied by a dashboard which displays summaries and the current status of each email thread the assistant is looped into.• Architect-ed and implemented the entire back-end along with integrations to Jira, Asana, Notion, Google Calendar and Gmail. Oversaw creation of friendly User Interfaces.• Oversaw LLM fine tuning, prompt tuning and created internal RLHF pipelines for AI powered use cases in every iteration of the product. | | |
| Jan. 2022 – Mar. 2023 | Hear Us, New Delhi | CO-FOUNDER, CTO |
| Hear Us started as a B2C mental health platform which over a series of pivots became an AI productivity tool. Around Mar. 2023, we changed names to Mavex AI after raising an angel round. During this period I designed and implemented the following systems: | | |
| <ul style="list-style-type: none">• A flutter android app to connect users with trained listeners and psychologists.• An anonymous employee feedback and mood tracking bot for slack called Joy - accompanied by a monitoring dashboard for admins.• A productivity focused bot on WhatsApp, capable of reaching out to people on the user's behalf for collecting information and scheduling meetings.• A Google Meet transcription system which sent summaries and actionable tasks to the participants on WhatsApp Email. This was a component of the above. | | |

Oct. 2021 – Apr. 2022

BCAS, Delhi University

RESEARCH APPRENTICE

- Undertook the calculation of electron-molecule collision cross-sections for various elemental gases under the guidance of Dr. Anand Bharadvaja.
- Presented the results in a research paper published in MDPI Journal - Atoms.

PROJECTS

- `daily-notes.nvim`
`daily-notes.nvim` is a lightweight Neovim plugin that replicates Obsidian's markdown template based daily note functionality inside Neovim. The plugin by default carries over the contents of previous day's note, headers that should not be copied can be specified separately. The plugin is highly configurable and allows custom datetime formats and paths etc.
- `ChainFactory`
`ChainFactory` is a framework on top of LangChain / LlamaIndex that aims to shift the standard way of defining LLM Chains to configuration instead of code. It makes use of YAML like syntax to define chains and guarantees structured output. Additionally it also has an auto-prompting mode which creates the full prompt template from a list of inputs and a single line purpose field. Chainlinks can import each other to tackle more and more complex tasks. The next step for ChainFactory is RAG by just specifying the sources and tool use to fill in information at run time.
- `PlanWeaver`
`PlanWeaver` is a step by step goal achieving driver for LLM Agents. Given an initial problem statement, it recursively breaks it into sub-problems until the exit condition is met (i.e. the current problem node is atomic and cannot be broken down anymore). You can use any type of executor that can take in natural language instructions as the execution component of PlanWeaver.
- `AgentZero`
`AgentZero` is a very simple LLM Agent which was created to be used as an executor with PlanWeaver.

PUBLICATIONS

- Garkoti, P.; Luthra, M.; Goswami, K.; Bharadvaja, A.; Baluja, K.L. The Binary-Encounter-Bethe Model for Computation of Singly Differential Cross Sections Due to Electron-Impact Ionization. *Atoms* 2022, 10, 60. *atoms*

REFERENCES

- Saurabh Pandey (CEO, Mavex AI) (saurabh@mavex.ai)
- Dr. Anand Bhardvaja (Professor, University of Delhi) (anand.bharadvaja@bcas.du.ac.in)