Veer Pareek

San Francisco, CA | vpareek2@illinois.edu | (650) 740-9177

Education

B.S. – University of Illinois Urbana-Champaign (Champaign, IL) — Graduation: May 2025
Major: Data Science & AI | *Minors:* Computer Science, French — GPA: 3.7/4.0
Courses: Data Structures & Algorithms, Computer Architecture, Machine Learning, Databases, Data Science Suite

Certifications
DeepLearning.ai: Machine Learning, Deep Learning, Generative AI, completed all short courses

Skills

Programming Languages: Python, C, Java, C++, SQL, R, JavaScript, HTML, CSS, Bash,
Concepts: ML & AI, Deep Learning, Data Science, Prompt Engineering & Development, Cloud, Docker
Frameworks: PyTorch, TensorFlow, JAX, Transformers for AI, Pandas and Sklearn for Data Science, Node.js, MySQL

Work Experience

Striim (Palo Alto, CA) — June 2023 – August 2023
Software Engineering Intern: Artificial Intelligence
- Harnessed Generative AI to build a model that translates natural language queries into actionable, compliable TQL (SQL copilot) code.
- Built a consumer-facing documentation chatbot using OpenAI embeddings and LangChain, with Google search functionality. First intern project to be incorporated in the distributed platform.

NextPhase.ai (San Mateo, CA) — May 2022 – August 2022
Data Science Intern
- Enhanced data automation quality through visualization using Apache Superset; developed parameterized dashboards in Power BI and Excel from employee skills survey data, enabling managers to filter by skills like Technical, People, and Leadership.
- Integrated ZoomInfo to help prospect higher quality deals. Used profiling criteria such as technology stacks and current platforms used, along with categories like revenue, location, etc., to curate a list of targets.

Technical Projects   (+ on website)

GPThrive
A Free GPT Therapy Chatbot — June 2023 – September 2023
- Built a 1.75B parameter GPT model from scratch using "Attention is all you need", "Language Models are Few-Shot Learners" and Andrej Karpathy's YouTube tutorials. Used NCSA's HAL Cluster for training.
- Used innovative data generation and RLHF with PPO techniques. Build simple chatbot UI with Gradio; Implemented "phone-call mode" using AssemblyAI and Google Cloud for more personal experience.

BrailleSculpt
English -> Braille -> 3D Print using an LSTM RNN — November 2023
- Leveraged Google's JAX and Deepmind's Haiku for high-performance next token prediction.
- Enhanced the efficiency of text-to-Braille translation (Grade 2, Advanced language structure, not one-to-one character translation) using LSTM Recurrent Neural Nets; streamlined for aiding the visually impaired through easy access to 3D printable Braille outputs.

Personal Website

https://vpareek2.github.io