Pranav Uttarkar

(346)-888-7168 | email | Linkedin | Portfolio

EDUCATION

Texas A&M University | College Station, TX
Bachelor of Science in Computer Science
Expected Graduation: May 2027

- Craig And Galen Brown Engineering Honors

RELEVANT COURSEWORK: C++, Computer Organization, Data Structures & Algorithms, Statistics

WORK EXPERIENCES

AI Development Intern | Houston, TX **May 2025 – August 2025**
Daikin North America

- Designed and deployed an internal **AI Agent Platform** using **Python, MCP**, and **LangChain/LangGraph**, to automate workflows across Sales & Marketing functions, reducing repetitive tasks and increasing efficiency for **10,000**+ employees.
- Developed **12**+ tools for the agent & integrated internal company APIs to perform tasks like dynamically generating HVAC system configurations, comparisons, dealer locations, and **RAG knowledge retrieval** based on natural language inputs.
- Collaborated with Product Managers, VPs, and cross-functional leads to ensure the platform **aligned with employee workflows** and **solved real productivity pain points**; gathered feedback through demos/discussions, iterated based on input.
- Used **Azure DevOps** to deploy and integrate with company GenAI web platform with **TypeScript**, **React**, **Redux,** and **CosmosDB** for chat history and context management.

Founder & Full-Stack Developer **May 2025 – Present**
MindWeb.systems

- Developed *MindWeb*, a gamified productivity web-app built with **React** + **TypeScript**, backed by **Supabase (PostgreSQL, Edge Functions, Auth, Storage)** with features like streaks, friends, custom notifications, large data tracking etc.
- Led early **beta launch and iterative marketing campaigns** across productivity communities to get ~**100** early testing users, to find product-market fit, and improve user experience.

Machine Learning Undergraduate Researcher | Houston, TX **January 2025 - Present**
Texas A&M University | Sketch Recognition Lab

- **Engineered a masked contrastive machine learning model** for segment-level musical version matching, enhancing recognition of different renditions of the same song with improved efficiency and robustness. using **TensorFlow & PyTorch**.
- **Curating and processing large-scale audio datasets**, achieving a **5% improvement in segment-level retrieval accuracy** over state-of-the-art CLEWS benchmarks and reducing training times, targeting publication at **ICASSP 2026.**

PROJECTS

Tamu-ProfSort (bit.ly/tamuprofsort)

- Developed a desktop app used actively by **400**+ students to track professor grading styles/averages with **Javascript** & **Puppeteer**

A&M Studys **September 2024 – December 2024**

- **Led a team of 7** fellow students to develop a web app to facilitate peer teaching and Q&A for Texas A&M courses built with **Firebase** & **React**.

Impossible Parkour

- Developed a TikTok **game filter** which reached **35.5M** views and **70,000**+ **user generated videos** with logic based nodes

LANGUAGES, TOOLS, FRAMEWORKS

- **Languages & Frameworks**: Python, C++, Typescript/Javascript, Java, R, Haskell, React, PostgreSQL, NoSQL
- **Libraries, Tools & Databases:** Github, Fast-API, MCP, LangChain/Graph, TensorFlow, Scikit Learn, pandas, numpy, Azure DevOps, CosmosDB, SupaBase, FireBase, node.js, REST APIs, JSON