Pratha Gupta

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Education

Texas A&M University, College Station, TX

BS Computer Science Honors, Minor: Business

Dean's Honor Roll, Grand Challenge Scholars

Relevant Coursework: Data Structure and Algorithms, Programming languages, Computer organization, C++/C, Python, Discrete Math, Business Management, Engineering Entrepreneurship

Technical Skills

- Languages: Python, Java, C++, Haskell
- Frameworks/Tools: Pandas, Tkinter, NumPy, Git/GitHub, ATLAS.ti, Shape 3D, Blender, Photoshop
- Certifications: Prutor@IITK Python Programming, Inspirit Al Scholars Program (Al & Machine Learning), AWS Certified Cloud Practitioner (In Progress)

Projects

- · Aggie Assistant: Developed a voice recognition chatbot that leveraged OpenAI to navigate and implement user audio input commands, enhancing user interactivity. Python, Open Al, Tkinter
- Implemented features for automated account login through audio input, reducing login time by 150%.
- Al Stock market Predictor (Inspirit Al Project): Collaborated with Stanford, MIT, and Yale alumni on project that predicted stock market and fluctuation in global prices through data analysis using ML, regression models.
- Wild Minds: Created a game-based website that analyzed mental health and early detection of dementia through logic-based challenges and predictive scoring algorithms. JavaScript and HTML
- Dungeon Crawler: Developed a fully functional 2D video game allowing users to control characters over various maps. Implemented gameplay features including coding enemy counters. C++

Professional Experience

Texas A&M University, Cstat – SI Leader

Aug 2024 - Present

- Led weekly supplemental instruction sessions for over 500 students across 3 semesters.
- · Held and designed interactive critical thinking exercises to strengthen students' conceptual understanding.

Texas A&M University, Cstat - Student researcher

Aug 2024 - Present

- Trained generative AI to generate NCLEC exam questions and to further gamify studying for nursing through game cards and escape room environment. Llama 3.1, Chat GPT 4.0, Chat GPT 3.5.
- Data analysis and graphing of Al-generated case studies using ATLAS.ti

Texas A&M University, Cstat - Student researcher

Dec 2023 - April 2024

· Created 3D models to analyze shipwrecks using Shape 3D, Blender, Photoshop.

Leadership

Tidal AI - Marketing officer

- Held Tidal hackthon'25, achieving over 300+ registrations and overseeing all photographic documentation.
- Developed and executed marketing content to promote tidal, increasing club involvement by 20%.

ExCom - Executive engineering honors committee - Research officer

· Organized informative on URS Program, recruiting ambassadors to speak on program selection, deadlines, and research opportunities, enhancing student engagement and awareness among honor students.

Aggie Data Science Club: Ongoing project collaborating with SEC that analyzes stock fluctuation and market trends using Machine Learning, Python.

Awards

- Aggie Invent: 1st and \$5k cash price on 48-hour invention competition. Worked on a project to enhance current ASIP in military technology by 200% in transmission power during halt and 100% during locomotion.
- SWE: Bronze medal won through points gained by taking leadership roles in HSC committee (Design team), Social committee, Outreach committee, Big in Big-Little, Leadership conference, Big Event within SWE.

Aug 2023 - May 2027

GPA: 3.85/4.0