AASHNA PATHI

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Aspiring data analyst with a strong foundation in biological research, data preprocessing, and statistical modeling. Passionate about uncovering actionable insights from complex datasets to support impactful scientific and healthcare solutions.

# EDUCATION

**The University of Texas at Dallas (UTD) — B.S. Biology, Minor in Computer Science**Richardson, TX | Aug 2021 – May 2025 | GPA: 4.00  
  
**Honors & Awards:**

* Hobson Wildenthal Honors College, Collegium V Scholar
* Dean’s List (All Semesters)
* URSA Undergraduate Research Scholar Award ($500)
* National Merit Scholar Finalist & Scholarship Recipient
* IBM Data Science Professional Certificate (In Progress)

### RESEARCH EXPERIENCE

**UT Southwestern Medical Center – Wang Lab**  
Research Intern, Bioinformatics | Dallas, TX | May – Oct 2024

* Analyzed 45+ spatial transcriptomics datasets using Python (Pandas, NumPy, Scanpy) for preprocessing, cleaning, and visualization.
* Applied unsupervised learning (UMAP, Leiden Clustering) for high-resolution cell-type classification.
* Maintained and organized complex metadata and gene expression matrices supporting deep learning model development.

**UT Southwestern – Green Fellows Program (Selective 20% acceptance)**  
Research Intern – Gamma Delta T Cell Study | Jan – May 2024

* Preprocessed 12,000+ samples of genomic data using Linux-based tools and sequence alignment software.
* Prepared curated datasets for transformer model training; presented findings in formal poster session.

**UTHealth – Kim Lab (NIH-Funded Research)**  
Research Intern, microSURP | Houston, TX | May – July 2023

* Conducted protein-DNA binding assays to study Mig1 interaction with G4 DNA.
* Presented research at UTHealth and UTD symposiums; contributed to NIH grant supplement.

### RELEVANT PROJECTS

**AI Coding Playground (Dallas AI Summer Program – 1st Place Winner)**  
Code Mentor | Python, React, Typescript | Jun – Aug 2024

* Built an AI-powered platform to generate personalized coding challenges using LLM APIs and Piston API for multi-language support.
* Led frontend development and OpenAI API integration in a 4-person team.

**Whole and Well Wellness App**  
Developer | Flutter, Firebase | Sep – Nov 2022

* Developed a wellness tracker app with motivational quotes API.
* Participated through ACM’s highly selective Projects Division (5% admit).

# LEADERSHIP & INVOLVEMENT

* President, UTD Making Healthcare Affordable (2022 – 2024)
* Mentor, UTD Freshman Mentor Program (2022 – 2025)
* Junior Analyst, UTD Consult Your Community (2025)
* Member, UT Dallas Women Who Compute (2024 – 2025)

# TECHNICAL SKILLS

Languages: Python, R, SQL, Java, C++, Typescript  
Libraries/Tools: Pandas, NumPy, Matplotlib, Scanpy, Linux, Git, Conda, Excel  
ML Techniques: Clustering, UMAP, Data Cleaning, Dimensionality Reduction  
Visualization: Matplotlib, Seaborn, Excel, Presentations  
Software: PowerPoint, Figma, Firebase, React

# ACADEMIC HIGHLIGHTS & EXTRACURRICULARS

* Honors Courses: Computational Biology, Applied Statistics, Data Visualization
* Workshops: Data Ethics in Biomedical Research, Data Science Bootcamp
* Community: STEM volunteer tutoring, Hackathon participant