Arshia Riaz

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SUMMARY

Data Science and Healthcare Technology professional with experience building AI-enabled products, cloud-based data pipelines, and end-to-end applications. Skilled in Python, R, Google Cloud, and MLOps, with a background in healthcare consulting, EHR systems, and neuroscience research. Published author in peer-reviewed medical journals.

EDUCATION

The University of Texas at Austin, Austin, TX   May 2025
Master of Science, Data Science, GPA 3.67
- **Relevant Coursework:** Machine Learning, Deep Learning, Natural Language Processing, Data Exploration & Visualization, Predictive Modeling, Data Science in Healthcare, Data Structures & Algorithms

The University of Texas at Austin, Austin, TX   May 2023
Bachelor of Science, Neuroscience, GPA 3.88
- **Relevant Coursework:** Neural Systems I, II, & III, Programming/Data Analysis in Modern Neuroscience, Neural Computation

CERTIFICATION

Google Cloud Professional Machine Learning Engineer   February 2026

SKILLS

- **Programming Languages:** Python, SQL, R, MATLAB
- **Data Science & Machine Learning:** Pandas, NumPy, Scikit-learn, PyTorch, TensorFlow, Model Training & Evaluation, Feature Engineering, Supervised Learning
- **Generative AI & LLMs:** Embeddings, Fine-Tuning, Prompt Engineering, Retrieval-Augmented Generation (RAG), LLM Evaluation
- **Data Engineering & Analytics:** Data Cleaning, ETL Pipelines, API Development (Flask, FastAPI), BigQuery, Data Modeling
- **Cloud & MLOps:** Google Cloud Platform (BigQuery, Vertex AI), CI/CD, Git, Model Deployment, Firebase
- **Domain Expertise:** Healthcare Data, EHR Systems (NextGen, DrChrono), Healthcare Technology, HIPAA, HL7, FHIR, Applied Neuroscience

APPLIED DATA & PRODUCT DEVELOPMENT EXPERIENCE

CareNav Health — AI-Enabled Healthcare Navigation Platform   June 2025 – Present
- Designed and deployed a healthcare navigation platform using Next.js, TypeScript, Tailwind, integrating OCR-based insurance card extraction (Mindee API), GCP BigQuery logging, and Pinecone embeddings for AI-driven plan matching. Deployed to Vercel with scalable architecture for future ML-based cost prediction.

Amalma — Maternal Health Data Tracking App   June 2025 – September 2025
- Built a HIPAA-conscious maternal health tracking app with Firebase authentication, Firestore cloud database, and mobile-optimized UI, enabling real-time pumping/feeding logs and analytics. Designed with scalable cloud architecture for integration with future AI-driven health insights.
- Live Demo: https://amalma-app.web.app

WORK EXPERIENCE

NextGen Healthcare
Specialist I, Professional Services Consulting   July 2023 – June 2025

- Delivered consulting on best practices and workflows to 10+ enterprise healthcare clients, leading discovery sessions and configuring NextGen EHR systems to improve adoption and operational efficiency.
- Led 20+ discovery and training sessions to analyze workflows, gather requirements, and improve system adoption.
- Configured and customized EHR workflows, templates, and forms, contributing to faster onboarding and improved operational efficiency for clinical staff.
- Served as subject matter expert for the Ophthalmology Suite, identifying and documenting 10+ product enhancement opportunities for engineering teams.

Brightly Software

Client Success Intern   May 2022 – December 2022
- Supported onboarding and troubleshooting for 15+ client accounts using Brightly enterprise software solutions.
- Assisted with solution configuration and issue resolution, helping improve client adoption and satisfaction.

The Optometry Center for Vision Therapy, Austin, TX

Vision Therapist   October 2021 – May 2022
- Delivered individualized vision therapy sessions for 30+ patients, collaborating with optometrists to track progress and adjust treatment plans.

Center for Neuromotor and Biomechanics Research, Houston, TX

Research Assistant   May 2021 – August 2021
- Conducted neuromotor adaptation research under Dr. Layne using the AlterG anti-gravity treadmill.
- Collected and processed experimental data for 20+ study sessions using MATLAB and Microsoft Excel.

Houston Oculoplastic Associates, Houston, TX

Ophthalmic Technician   January 2020 – August 2021
- Managed medical documentation in EHR systems (NextGen, DrChrono) and performed diagnostic vision tests (Visual Field, Eyelid Field) for 100+ patients.

PUBLICATIONS

- Malaya, C.A., et al. (2023). *Effects of simulated hypo-gravity on lower limb kinematic and electromyographic variables during anti-gravitational treadmill walking.* Frontiers in physiology, 14.
- Riaz, A., et al. (2022). *Epidemiological Aspects of Giant Cell Arteritis*. Giant-Cell Arteritis, IntechOpen. (Book Chapter)