ARSHIA RIAZ

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Data Science & Healthcare Technology Professional with experience in building AI-enabled products, cloud-based data pipelines, and end-to-end application development. Skilled in Python, R, GCP, and MLOps, with a proven background in healthcare consulting, EHR systems, and applied neuroscience research. Published author in peer-reviewed medical journals.

EDUCATION

University of Texas at Austin, Austin, TX
- M.S., Data Science (May 2025)
- B.S., Neuroscience (May 2023)

WORK EXPERIENCE

NextGen Healthcare, Remote
Specialist I, Professional Services Consulting (July 2023 – May 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.
- Built, configured, and customized workflows to meet client needs; provided Go-Live support for successful product adoption
- Maintained subject matter expertise in the Ophthalmology Suite; identified and documented product functionality gaps

Brightly Software, Remote
Client Success Intern (May 2022 – December 2022)
- Trained on Brightly solutions and services; assisted clients with troubleshooting and solution implementation
- Developed understanding of business systems, operating principles, and organizational dynamics

The Optometry Center for Vision Therapy, Austin, TX
Vision Therapist (October 2021 – May 2022)
- Provided vision therapy services to patients of all ages; collaborated with optometrists to ensure high-quality care

Center for Neuromotor and Biomechanics Research, Houston, TX
Research Assistant (May 2021 – August 2021)
- Conducted research on adaptation using AlterG unloading treadmill under Dr. Layne
- Collected and processed data 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.

APPLIED DATA & PRODUCT DEVELOPMENT PROJECTS

CareNav Health — AI-Enabled Healthcare Navigation Platform (In Progress)
- 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 (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

PUBLICATIONS

1. Riaz, A., et al. (2022). 'Epidemiological Aspects of Giant Cell Arteritis'. Giant-Cell Arteritis, IntechOpen.
2. 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.

CERTIFICATIONS

- Google Cloud Professional Machine Learning Engineer – *In Progress (Expected Sept 2025)*

SKILLS

- **Programming & Data Science:** Python, R, MATLAB, SQL, NumPy, Pandas, Scikit-learn, Matplotlib, PyTorch, CNNs, Semantic Segmentation
- **Cloud & MLOps:** Google Cloud Platform (BigQuery, Vertex AI), Firebase, API Development, Model Deployment (Flask, FastAPI), CI/CD
- **Tools:** Git/GitHub
- **Domain Expertise:** EHR Systems (NextGen, DrChrono), Healthcare Technology, Applied Neuroscience Research, Healthcare Standards & Compliance (HIPAA, HL7, FHIR)
- **Languages:** English, French, Urdu, Hindi