Asifur Rahman

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Education

The University of Arizona, College of Science, Tucson, AZ — Expected Spring 2026
Bachelor of Science in ***Computer Science***, *Minor in* ***Business Administration and Game Design and Development***
Honors: 2x Dean's List, 1x Academic Year Distinction, 4x Global Wildcat Merit Scholarship Awardee
Leadership Experience: Chairperson of Public Relations — **Arizona Delta Chi Fraternity**
Mentor & Participant — **HackArizona 2025 Hackathon**

Technical Skills

Programming Languages: Python, R, SQL, Java, JavaScript, HTML/CSS, C, LaTeX
ML & Data Tools: PyTorch, TensorFlow, scikit-learn, NumPy, Pandas, Matplotlib, Seaborn, OpenCV, spaCy, XGBoost, Hugging Face, Jupyter, EDA, Tableau
Frameworks & Tools: Git, Docker, Flask, Django, React.js, Next.js, MongoDB, PostgreSQL, Firebase

Work Experience

Undergraduate Researcher — Electrical and Computer Engineering, UArizona — May 2025 – Present
- Conducting supervised research under Dr. Eung-Joo Lee on AI-driven gaze estimation for mobile clinical perimetry, targeting early detection of glaucoma, Parkinson's, and Alzheimer's.
- Contributed to model training, dataset preparation, and evaluation benchmarks for MobileViT-based gaze tracking with deployment in resource-limited settings.

Research Intern — Department of Marketing, Eller College of Management — Aug 2024 – Present
- Conducted weekly experiments with 250+ participants and analyzed results using R, and Excel.
- Improved data processing efficiency by 20% through survey automation and statistical workflow optimization.

IBM Science Shadow Program — IBM, Tucson, AZ — Summer 2025
- Selected for IBM's Science Shadow Program to explore AI, cloud, and quantum systems through lab tours, tech demos, engineers, and Hiring Manager Q&As.

Projects

Eye-Tracking Perimetry System – Gaze Estimation with MobileViT, *GitHub* — May 2025 – Present
Technologies: PyTorch, MobileViT, MediaPipe, Hugging Face Transformers, MPIIGaze, Python
- Designed a real-time eye-tracking pipeline using transformer-based models to support mobile perimetry.
- Used MobileViT and MediaPipe for landmark detection and inference optimization; applied knowledge distillation for mobile deployment.
- Enabled early screening potential for glaucoma, Parkinson's, and Alzheimer's by achieving a 25% gain in gaze prediction accuracy.

Employee Attrition Prediction Model – Google Advanced Data Analytics, *GitHub* — June 2025 - July 2025
Technologies: Python, Pandas, XGBoost, Logistic Regression, Seaborn, Matplotlib
- Built predictive models (Logistic Regression, Random Forest, XGBoost) to forecast employee attrition with ∼98% accuracy using engineered HR and demographic features.
- Delivered actionable HR insights through feature engineering, EDA, and visualization of model comparisons.

Decoding Arrest Dynamics – Demographic Disparity Analysis, *GitHub* — Mar 2024 – Apr 2024
Technologies: Python, Pandas, scikit-learn, Seaborn, Matplotlib, EDA
- Investigated arrest patterns in Tucson using public datasets to identify racial and income-based disparities.
- Improved minority prediction recall by 20% using Random Forests and time-of-day feature segmentation.
- Delivered insights via heatmaps and visual dashboards, supporting social equity discussions and data literacy.

More projects at: www.iamasiff.com/portfolio

Certifications

Google Advanced Data Analytics (Google); Deep Learning with Computer Vision (Univ. of Colorado Boulder); AI Foundations (IBM); AWS Lambda Functions (AWS); GCP: Social & Behavioral Research (CITI Program)