Insiya Raja

San Marcos, TX | rajainsiya24@gmail.com | LinkedIn.com/in/insiya-raja24 | GitHub.com/insiya2414 | InsiyaRaja.com

EDUCATION

Texas State University, San Marcos   *Expected Graduation: May 2025*
Bachelor of Science in Computer Science   *GPA: 3.89/4.0*
Awards & Honors: TXST Distinguished Scholarship (four-year, top 25% incoming freshman) • Consistently featured on the Dean's List • Alpha Lambda Delta Honors Society (top 20%) • Computer Science Academic Excellence • Michael Austin Moore Endowed Awards

SKILLS

Languages: Python • SQL • Java • C++ • R • JavaScript • HTML5 • CSS3
Data Analysis & Visualization: Pandas • NumPy • Matplotlib • Seaborn • Power BI • Tableau • Excel • Jupyter Notebook • Google Colab
Machine Learning & AI: TensorFlow • PyTorch • Scikit-learn • Keras • OpenCV (computer vision) • Hugging Face (NLP models)
Platforms & Engineering: Git/GitHub • API Integration • Cloud (Azure, AWS) • Databricks • Synapse Analytics • MySQL Workbench • ETL • CI/CD (GitHub Actions, Azure DevOps) • Forecasting & Decision-Making
Certifications: Microsoft Certified Azure Data Scientist Associate • AZ-900 Microsoft Azure Fundamentals • Python Programming Masterclass • CompTIA Network+ (WIP) • CodePath AWS Certified Cloud Practitioner Certification(WIP)

PROJECTS

Azure Data Engineering Pipeline
- Designed and automated a scalable data pipeline using Azure Data Factory, Databricks, PySpark, and Azure Synapse Analytics for big data processing.
- Built an efficient ETL workflow to transform raw data into a data warehouse, enabling seamless integration with Power BI for real-time insights.

AI-Powered Teaching Assistant For Career Readiness Course
- Focused on prompt engineering to optimize AI responses for technical interview preparation by 30%.
- Applied NLP and fine-tuned ML models, achieving 85% relevance in contextually accurate explanations.

Diabetes prediction using ML Models | Kaggle Link
- Built a diabetes prediction model (82% accuracy) using Random Forest, SVM, and KNN, optimizing features through scaling, encoding, and outlier removal.
- Analyzed ~1000 patient records, leveraging EDA, feature visualization, and correlation analysis for variable selection.

Power BI & Tableau Developer
- Developed and implemented interactive dashboards for analyzing Netflix viewership patterns and stock market trends.
- Developed interactive charts, graphs, and KPIs to highlight trends, identify top-selling pizza's, and track customer sales preferences.

EXPERIENCE

Research Analyst   *May 2024 - Dec 2024*
Center for Analytics and Data Science   *San Marcos, TX*
- Examined national CMS datasets with nearly 1M+ records to identify health disparities, aimed at reducing care costs.
- Assisted PhD students in publishing 3+ research papers by conducting exploratory data analysis (EDA) using Python, R, and Power BI, uncovering patterns in patient care, provider performance, and cost-effectiveness to support data-driven healthcare policy decisions.

Student Assistant   *Nov 2023 - May 2024*
Ingram School of Engineering (AIT Lab)   *San Marcos, TX*
- Conducted literature reviews for PhD students using Zotero, categorizing sources, and ensuring accurate citation management for academic publications.
- Gathered and interpreted transportation data using ArcGIS Pro, mapping road networks and measuring infrastructure lengths to support data-driven insights for transportation research projects.

STEM Tutoring Team   *Aug 2023 - Dec 2023*
Student Support Services   *San Marcos, TX*
- Empowered over 50 students with personalized study tips, achieving an average two-letter grade improvement.
- Spearheaded a student referral initiative, strategically matching 20+ students with tailored academic support, resulting in a significant boost in overall academic achievements across multiple subjects.

Activities

- Active member of SWE, ACM and the Computer Science Club (.EXE), staying updated on AI and industry trends.
- Won Best Product at Boko Hacks, 1st Prize in Chevron Track at Rice Datathon (2024 vehicle prediction), and 1st Prize (Undergrad) at TXST 2025 Datathon. Also competed in several other hackathons.
- Mentored 10+ aspiring female coders through Girls Who Code and supported diversity initiatives with AI4ALL.
- Represented Texas State at ALD National Conference 2023 (collaborative research) and SWE Conference Chicago 2024.