

RAKSHITH REDDY MUDIGOLAM

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EDUCATION

B. S - Computer science

Arizona State University, Tempe, AZ

3X Dean's List, New American University Scholarship Holder

May 2026

4.0 GPA

TECHINICAL SKILLS

Communication: Salesforce, Slack, Discord, Dropbox, Drive

MS Office: Word, Excel, PowerPoint, Outlook

Programming: Java, Python, C, C++, Java Script, HTML, CSS, R, MATLAB, Prolog, Scheme

Design and Modeling Tools: Filmora, Adobe Premiere Pro, OBS, Studio 2.0-Bricklink

PROJECTS

Automotive Performance Analysis: Predicting Vehicle Fuel Efficiency

April 2024

- Developed a machine learning pipeline to predict vehicle fuel efficiency, achieving an R^2 score of 0.972 using RandomForestRegressor.
- Conducted data preprocessing, feature engineering, and exploratory data analysis using Python, pandas, numpy, seaborn, matplotlib, and scikit-learn.

Amazon Sales and Profit Trend Analysis

February 2024

- Conducted exploratory data analysis to identify key sales and profit trends, utilizing R (ggplot2, dplyr).
- Developed and evaluated predictive models (Linear Regression, Neural Networks, Elastic Net, Random Forest), achieving high accuracy with an R-squared value of 0.85 using Random Forest.

2023 Vietnam Substantial Shrimp Farming - Engineering Projects in Community Services

December 2023

- Collaborated effectively within a 17-member team, actively participating in over 50 weekly meetings and contributing to Agile-driven roadmaps, resulting in a significant 20% increase in project efficiency compared to previous semesters.
- Applied expertise in HTML, CSS, PHP, and JavaScript to develop a compelling homepage and optimize the 'Contact Us' section of the website, enhancing user experience and functionality.

Autonomous Lego Car Project

May 2023

- Led a team project to develop a sophisticated Lego car capable of autonomous navigation through complex city mazes, including the ability to detect red lights and ensure passenger safety.
- Demonstrated strong leadership by overseeing the programming of the vehicle's operational code using MATLAB, highlighting technical expertise and effective team coordination.

WORK EXPERIENCE

Registration and Recruitment Assistant, Arizona State University

March 2024 - Present

- Carried program registration process for E2 by guiding participants through registration forms, ensuring accuracy, and troubleshooting any issues through salesforce.
- Respond promptly to inquiries related to program registration, providing detailed information about registration process, deadlines, etc.

Math Instructional Aide, Arizona State University

August 2023 - Present

- Tutored over 400 students in overcoming math-related challenges by breaking down complex problems into manageable steps.
- Established rapport with students, creating a healthy learning environment through a simplified teaching approach.

Lab Aide, START Therapy Neuro-Mobility Research lab

August 2023 - February 2024

- Analyzed spasticity in stroke participants, conducting assessments including ARAT and Fugl-Meyer tests.
- Contributed to ongoing research on neuro-mobility, demonstrating a commitment to advancing scientific understanding.

RESEARCH INVOLVEMENT / HACKATHONS

FutureG - Future Generation Wireless Technology

May 2024

- Participated in a five-day FutureG Summer Research Camp at Arizona State University, hosted by the DOD Center of Excellence in Future Generation Wireless Technology. Gained hands-on experience in wireless communications technologies, including cybersecurity, signal processing, and AR/VR systems. Engaged with leading faculty and industry experts, enhancing my understanding of cutting-edge advancements in wireless network technology and its applications. This program reinforced my passion for engineering and inspired me to pursue further research in the field.

Finding FRED

April 2024

- Participated in the STEAM Hackathon at the ASU Chandler Innovation Center, securing 2nd place in the room with a team-based chain-reaction machine project to unravel the disappearance of the Friendly Robotic Engineer Droid (F.R.E.D.).