Dev Manghat

mangha_d1@denison.edu | github.com/devManghat005 | (740) 404-8653

EDUCATION

Denison University, Granville, OH 2023 – 2027
B.S. Computer Science, B.A. Economics
– Cumulative GPA: 3.4/4.0

PROFESSIONAL EXPERIENCE

Software Engineer Intern May 2025 – Aug 2025
Tata Technologies *Mumbai, India*
– Developed backend automation tools using Python and Flask to streamline internal engineering workflows.

– Designed and integrated RESTful APIs with MySQL databases to manage CAD and simulation data.

– Built dashboard modules for data visualization and automated report generation, improving efficiency by 20%.

– Collaborated with cross-functional teams to ensure scalability, reliability, and data integrity across systems.

Community Advisor May 2025 – Present
Denison University *Ohio*
– Mentored peers and resolved conflicts, fostering a supportive community for 25+ residents.

– Managed on-call duties for 300+ residents; reduced incident reports by 15%.

Research Assistant Jan 2024 – Present
Denison University *Ohio*
– Modeled Congressional ideology with BERT embeddings and Ridge Regression.

– Applied entropy-based methods to measure intra-party competition.

– Presented model at Indiana-Kentucky-Ohio MAA Tri-Section Meeting.

PROJECTS

Donor Retention (XGBoost + SHAP) Mar 2025 – May 2025
– Developed a machine learning model using XGBoost and SHAP to predict donor retention using real world historical transaction data from Sam's Fans, a nonprofit organization.

Financial Literacy Website Nov 2024 – Jan 2025
– Built a web page using JavaScript and HTML to educate users on the benefits of credit card usage.

– Generated over $1,000 in referral earnings using my website by encouraging sign-ups through my referral link.

Python Automation Scripts Aug 2024 – Dec 2024
– Designed and implemented a Python script to automate the calculation of monthly work hours and corresponding pay based on Google calendar events.

Password Game Oct 2024 – Nov 2024
– Designed regex-based password challenge game in JavaScript/HTML.

Android Fitness App Jan 2023 – Aug 2023
– Designed and developed a fitness and health application using Java and XML for Android devices that uses SQL database to track progress.

RELEVANT COURSEWORK

Data Structures, Data Systems, Linear Algebra, Multivariable Calculus, Applied Statistics

TECHNICAL SKILLS

Python; Familiar with C++, Git, SQL, Dart, JavaScript, HTML, CSS