Dev Manghat

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EDUCATION

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

PROFESSIONAL EXPERIENCE

Software Engineer   May 2025 – Aug 2025
Tata Technologies   *Mumbai, India*
– Designed and built software solutions for client projects.

– Assisted with system integration and debugging.

– Optimized performance and improved reliability.

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