Manasvi Vardham

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EDUCATION

University of California, Irvine, The Paul Merage School of Business   **Irvine, CA**
Master of Science in Business Analytics   Graduation Date : June 2026
- Relevant Coursework : Statistics for Data Science, Machine Learning, Natural Language Processing

Whittier College   **Whittier, CA**
Bachelors of Arts in Computer Science and Economics (Dean's List, 4 years)   Graduation Date : May 2025
- Relevant Coursework : Data Science, Data Structures, Quantitative Methods, Econometrics

EXPERIENCE

Whittier College   **Whittier, CA**
Undergraduate Research Fellow   May 2024 - April 2025
Project: Advanced Simulation of Neutrino Energy Predictions (Predictive Modeling & Data Analysis)
- Integrated published reconstruction models in a simulation framework to determine the accuracy of energy predictions and evaluate their performance across datasets with thousands of simulated observations.
- Applied statistical and pattern-recognition techniques to improve accuracy, compare results against alternative models, and uncover performance trends that improved the reliability of energy predictions.

Whittier College - Office of Institutional Effectiveness   **Whittier, CA**
Data Analyst Intern   August 2023 - April 2025
- Built an interactive NSSE Dashboard in Power BI, transforming student survey datasets into visualizations that improved data accessibility and enabled administrators to make informed data-driven decisions.
- Conducted a student-athlete persistence study by analysing enrollment data from 2016-2024 to identify retention and graduation rate patterns.

IQVIA   **Bangalore, IND**
Data Analyst Intern - AIML Engineering   May 2023 - August 2023
- Developed a 99% accurate Python based disease detection conversational chatbot using OpenAI's GPT-4 language model enhancing user accessibility to insights and streamlining information retrieval.
- Built a Python script that used API's to enable automation of analysis of HCP interview transcripts to derive meaningful patterns and trends, resulting in a 43% decrease in manual labor.

ACADEMIC PROJECTS

Sun Country Airline Segmentation Project   August 2025
- Applied k-means clustering on 90+ airline booking features to segment Sun Country's customers into five distinct groups.
- Analyzed demographics, seasonality, and booking behaviors to generate targeted marketing recommendations.
- Delivered visual insights (age distribution, booking times, seasonality) aligning clusters with business objectives .

Income Prediction Project   April 2023
- Implemented Neural Network and Logistic Regression models for income prediction using census data.
- Preprocessed data by feature scaling and binary target variable conversion, with a 80:20 train test split ratio.
- Achieved a higher accuracy with the Neural Network, outperforming the LR model by approximately 5%

Travel Buddy   June 2022
- Implemented a Linear Regression Model to predict travel spending and increased prediction accuracy by 8%
- Utilized a MySQL database to efficiently store and retrieve trip data, ensuring seamless data retrieval

SKILLS

Languages   Python, C, C++, HTML
Technologies   MySQL, Microsoft Excel, Tableau, PowerBI, SPSS
Strengths   Analytical Thinking, Leadership, Organizational, Communication